

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

NRG Texas Power LLC

AUTHORIZING THE OPERATION OF

Limestone Electric Generating Station
Electric Services

LOCATED AT

Limestone County, Texas

Latitude 31° 24' 39" Longitude 96° 15' 42"

Regulated Entity Number: RN100542927

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site, emission units and affected source listed in this permit. Operations of the site, emission units and affected source listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site, emission units and affected source authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site, emission units and affected source.

Permit No: O75 Issuance Date: January 24, 2012

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
 - F. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 101.372 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
 - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
 - (iv) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)
 - (v) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
 - (vi) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)

- C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as

plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

- (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
- (2) Records of all observations shall be maintained.
- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the

source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
 - (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at

the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader

- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- F. Permit holder shall comply with the following requirements for steam generators:
 - (i) Emissions from any solid fuel-fired steam generator may not exceed 0.3 pound of TSP per MMBtu of heat input, averaged over a two-hour period, as required in 30 TAC § 111.153(b) (relating to Emissions Limits for Steam Generators).
- G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:

- (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
 - A. When filling gasoline storage vessels with a nominal capacity greater than 1,000 gallons (Stage I) at motor vehicle fuel dispensing facilities, which have dispensed less than 125,000 gallons of gasoline in any calendar month after January 1, 1999, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
 - (i) Title 30 TAC § 115.222(7) (relating to Control Requirements)
 - (ii) Title 30 TAC § 115.222(3), as it applies to liquid gasoline leaks
 - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks
 - (iv) Title 30 TAC § 115.226(2)(C) (relating to Recordkeeping Requirements)
 - B. When filling stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons at a Stage I motor vehicle fuel dispensing facility, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
 - (i) Title 30 TAC § 115.222(7) (relating to Control Requirements)
 - (ii) Title 30 TAC § 115.222(3), as it applies to liquid gasoline leaks
 - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks
- 5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)

- C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

Additional Monitoring Requirements

7. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
- A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.

- E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
- 8. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

- 9. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
- 10. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
- 11. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit’s compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, material safety data sheets (MSDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests,

capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144.

- A. If applicable, monitoring of control device performance or general work practice standards shall be made in accordance with the TCEQ Periodic Monitoring Guidance document.
 - B. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
12. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
- A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
 - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
 - C. Applicable requirements of 30 TAC § 116.617 for Pollution Control Projects based on the information contained in the registration application.

Compliance Requirements

13. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
14. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
- A. The permit holder shall comply with the compliance schedule as required in 30 TAC § 117.9300 for electric utilities in East and Central Texas.
15. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117

- (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- 16. The permit holder may comply with the following 30 TAC Chapter 101, Subchapter H, Division 5 (System Cap Trading) Requirements for an electric generating facility participating in a system cap:
 - A. Title 30 TAC § 101.383 (relating to General Provisions)
 - B. Title 30 TAC § 101.385 (relating to Recordkeeping and Reporting)

Protection of Stratospheric Ozone

- 17. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone.
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.
 - B. The permit holder shall comply with 40 CFR Part 82, Subpart H related to Halon Emissions Reduction requirements as specified in 40 CFR § 82.250 - § 82.270 and the applicable Part 82 Appendices.

Permit Location

18. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

19. A permit shield is granted for the emission units, groups, or processes specified in the attached “Permit Shield.” Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment “Permit Shield.” Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Acid Rain Permit Requirements

20. For units 1 and 2 (as identified in the Certificate of Representation as units LIM1 and LIM2), located at the affected source identified by ORIS/Facility code 0298, the designated representative and the owner or operator, as applicable, shall comply with the following Acid Rain Permit requirements.

A. General Requirements

- (i) Under 30 TAC § 122.12(1) and 40 CFR Part 72, the Acid Rain Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP) and have an independent public comment process which may be separate from, or combined with the FOP.
- (ii) The owner and operator shall comply with the requirements of 40 CFR Part 72 and 40 CFR Part 76. Any noncompliance with the Acid Rain Permit will be considered noncompliance with the FOP and may be subject to enforcement action.
- (iii) The owners and operators of the affected source shall operate the source and the unit in compliance with the requirements of this Acid Rain Permit and all other applicable State and federal requirements.
- (iv) The owners and operators of the affected source shall comply with the General Terms and Conditions of the FOP that incorporates this Acid Rain Permit.

- (v) The term for the Acid Rain permit shall commence with the issuance of the FOP that incorporates the Acid Rain permit and shall be run concurrent with the remainder of the term of the FOP. Renewal of the Acid Rain permit shall coincide with the renewal of the FOP that incorporates the Acid Rain permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring Requirements

- (i) The owners and operators, and the designated representative, of the affected source and each affected unit at the source shall comply with the monitoring requirements contained 40 CFR Part 75.
- (ii) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 and any other credible evidence shall be used to determine compliance by the affected source with the acid rain emissions limitations and emissions reduction requirements for SO₂ and NO_x under the ARP.
- (iii) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emission of other pollutants or other emissions characteristics at the unit under other applicable requirements of the FCAA Amendments (42 U.S.C. 7401, as amended November 15, 1990) and other terms and conditions of the operating permit for the source.

C. SO₂ emissions requirements

- (i) The owners and operators of each source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for SO₂.
- (ii) As of the allowance transfer deadline the owners and operators of the affected source and each affected unit at the source shall hold, in the unit's compliance subaccount, allowances in an amount not less than the total annual emissions of SO₂ for the previous calendar year.
- (iii) Each ton of SO₂ emitted in excess of the acid rain emissions limitations for SO₂ shall constitute a separate violation of the FCAA amendments.
- (iv) An affected unit shall be subject to the requirements under (i) and (ii) of the SO₂ emissions requirements as follows:
 - (1) Starting January 1, 2000, an affected unit under 40 CFR § 72.6(a)(2); or

- (2) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR § 72.6(a)(3).
- (v) Allowances shall be held in, deducted from, or transferred into or among Allowance Tracking System accounts in accordance with the requirements of the ARP.
- (vi) An allowance shall not be deducted, for compliance with the requirements of this permit, in a calendar year before the year for which the allowance was allocated.
- (vii) An allowance allocated by the EPA Administrator or under the ARP is a limited authorization to emit SO₂ in accordance with the ARP. No provision of the ARP, Acid Rain permit application, this Acid Rain Permit, or an exemption under 40 CFR §§ 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (viii) An allowance allocated by the EPA Administrator under the ARP does not constitute a property right.

D. NO_x Emission Requirements

- (i) The owners and operators of the source and each affected unit at the source shall comply with the applicable acid rain emissions limitations for NO_x under 40 CFR Part 76.
- (ii) The owners and operators shall comply with an NO_x early election compliance plan for units LIM1 and LIM2 under Phase II of the acid rain program, pursuant to 40 CFR § 76.8(d)(2). This plan is approved by the TCEQ and is effective January 1, 2000 through December 31, 2007, under which each unit's annual average NO_x emission rate for each year, determined using the methods and procedures specified in 40 CFR Part 75, shall not exceed the applicable emission limitation, under 40 CFR § 76.5(a), of 0.45 lb/MMBtu for tangentially fired units LIM1 and LIM2. If the unit is in compliance with its applicable emission limitation for each year of the plan, then the unit shall not be subject to the standard NO_x applicable emission limitations under 40 CFR § 76.7(a) until January 1, 2008.
- (iii) The Phase II NO_x early election compliance plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of this plan takes effect. If the designated representative of the unit under this plan fails to demonstrate compliance with the NO_x early elect compliance plan applicable emission limitation under 40 CFR § 76.5(a), of for any

year during the period beginning January 1, 2000 and ending December 31, 2007, then the TCEQ will terminate this early elect compliance plan. The termination will take effect beginning January 1 of the year following the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit may terminate this plan any year prior to 2008 but may not submit a new early election plan. In order to terminate this early elect compliance plan, the designated representative must submit a notice under 40 CFR § 72.40(d) by January 1 of the year for which the termination is to take effect. If the early election compliance plan is terminated on or after 2000, the unit shall not exceed the standard NO_x applicable emission limitations under 40 CFR § 76.7(a) beginning on the effective date of the termination of the early election plan.

- (iv) Beginning on the effective date of the termination of the early election plan, but no later than January 1, 2008, the owners and operators shall comply with the Phase II NO_x standard emission limitation compliance plan for units LIM1 and LIM2, under which each unit's annual average NO_x emission rate for each year, determined using the methods and procedures specified in 40 CFR Part 75, shall not exceed the applicable emission limitation of 0.40 lb/MMBtu for tangentially fired units LIM1 and LIM2 under 40 CFR § 76.7(a)(1).

E. Excess emissions requirements for SO₂ and NO_x.

- (i) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR Part 77.
- (ii) If an affected source has excess emissions in any calendar year shall, as required by 40 CFR Part 77:
 - (1) Pay, without demand, the penalty required and pay, upon demand, the interest on that penalty.
 - (2) Comply with the terms of an approved offset plan.

F. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the affected source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the EPA Administrator.

- (1) The certificate of representation for the designated representative for the source and each affected unit and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR § 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative.
- (2) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping (rather than a five-year period cited in 30 TAC § 122.144), the 3-year period shall apply.
- (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the ARP or relied upon for compliance certification.
- (4) Copies of all documents used to complete a acid rain permit application and any other submission under the ARP or to demonstrate compliance with the requirements of the ARP.
- (ii) The designated representative of an affected source and each affected unit at the source shall submit the reports required under the ARP including those under 40 CFR Part 72, Subpart I and 40 CFR Part 75.

G. Liability

- (i) Any person who knowingly violates any requirement or prohibition of the ARP, a complete acid rain permit application, an acid rain permit, or a written exemption under 40 CFR §§ 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to FCAA § 113(c).
- (ii) Any person who knowingly makes a false, material statement in any record, submission, or report under the ARP shall be subject to criminal enforcement pursuant to FCAA § 113(c) and 18 U.S.C. 1001.
- (iii) No permit revision shall excuse any violation of the requirements of the ARP that occurs prior to the date that the revision takes effect.
- (iv) The affected source and each affected unit shall meet the requirements of the ARP contained in 40 CFR Parts 72 through 78.

- (v) Any provision of the ARP that applies to an affected source or the designated representative of an affected source shall also apply to the owners and operators of such source and of the affected units at the source.
 - (vi) Any provision of the ARP that applies to an affected unit (including a provision applicable to the DR of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR § 72.44 (Phase II repowering extension plans) and 40 CFR § 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR §§ 75.16, 75.17, and 75.18), the owners and operators and the DR of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the DR and that is located at a source of which they are not owners or operators or the DR.
 - (vii) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or DR of such source or unit, shall be a separate violation of the FCAA Amendments.
- H. Effect on other authorities. No provision of the ARP, an acid rain permit application, an acid rain permit, or an exemption under 40 CFR §§ 72.7 or 72.8 shall be construed as:
- (i) Except as expressly provided in Title IV of the FCAA Amendments, exempting or excluding the owners and operators and, to the extent applicable, the DR of an affected source or affected unit from compliance with any other provision of the FCAA Amendments, including the provisions of Title I of the FCAA Amendments relating to applicable National Ambient Air Quality Standards or State Implementation Plans.
 - (ii) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the FCAA Amendments.
 - (iii) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law.
 - (iv) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

- (v) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.
- I. The number of SO₂ allowances allocated by the EPA in 40 CFR Part 73 is enforceable only by the EPA Administrator.

Clean Air Interstate Rule Permit Requirements

21. For units 1 and 2 (as identified in the Certificate of Representation as units LIM1 and LIM2), located at the site identified by ORIS/Facility code 0298, the designated representative and the owner or operator, as applicable, shall comply with the following Clean Air Interstate Rule (CAIR) Permit requirements. Until approval of the Texas CAIR SIP by EPA, the permit holder shall comply with the equivalent requirements of 40 CFR Part 97 in place of the referenced 40 CFR Part 96 requirements in the Texas CAIR permit and 30 TAC Chapter 122 requirements.

A. General Requirements

- (i) Under 30 TAC § 122.420(b) and 40 CFR §§ 96.120(b) and 96.220(b) the CAIR Permit requirements contained here are a separable portion of the Federal Operating Permit (FOP).
- (ii) The owners and operators of the CAIR NO_x and the CAIR SO₂ source shall operate the source and the unit in compliance with the requirements of this CAIR permit and all other applicable State and federal requirements.
- (iii) The owners and operators of the CAIR NO_x and the CAIR SO₂ source shall comply with the General Terms and Conditions of the FOP that incorporates this CAIR Permit.
- (iv) The term for the initial CAIR permit shall commence with the issuance of the revision containing the CAIR permit and shall be the remaining term for the FOP that incorporates the CAIR permit. Renewal of the initial CAIR permit shall coincide with the renewal of the FOP that incorporates the CAIR permit and subsequent terms shall be no more than five years from the date of renewal of the FOP and run concurrent with the permit term of the FOP.

B. Monitoring and Reporting Requirements

- (i) The owners and operators, and the CAIR designated representative, of the CAIR NO_x source and each CAIR NO_x unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HH.

- (ii) The owners and operators, and the CAIR designated representative, of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements contained 40 CFR Part 96, Subpart HHH.
- (iii) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH and any other credible evidence shall be used to determine compliance by the CAIR NO_x source with the CAIR NO_x emissions limitation.
- (iv) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH and any other credible evidence shall be used to determine compliance by the CAIR SO₂ source with the CAIR SO₂ emissions limitation.

C. NO_x emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under 40 CFR § 96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x units at the source, as determined in accordance the requirements 40 CFR Part 96, Subpart HH.
- (ii) A CAIR NO_x unit shall be subject to the requirements of paragraph C.(i) of this CAIR Permit starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 96.170(b)(1), (2), or (5).
- (iii) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements of this permit, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.
- (iv) CAIR NO_x allowances shall be held in, deducted from or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FF or Subpart GG.
- (v) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 40 CFR § 96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

- (vi) A CAIR NO_x allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FF or Subpart GG, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x unit's compliance account is incorporated automatically in this CAIR permit.

D. NO_x excess emissions requirement

- (i) If a CAIR NO_x source emits nitrogen oxides during any control period in excess of the CAIR NO_x emissions limitation, the owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under 40 CFR § 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable State law.

E. SO₂ emissions requirements

- (i) As of the allowance transfer deadline for a control period, the owners and operators of the CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, CAIR SO₂ allowances available for compliance deductions for the control period under 40 CFR § 96.254(a) and (b) in an amount not less than the tons of total sulfur dioxides emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance the requirements 40 CFR Part 96, Subpart HHH.
- (ii) A CAIR SO₂ unit shall be subject to the requirements of paragraph E.(i) of this CAIR Permit starting on the later of January 1, 2010, or the deadline for meeting the unit's monitor certification requirements under 40 CFR § 96.270(b)(1), (2), or (5).
- (iii) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements of this permit, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.
- (iv) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with the requirements of 40 CFR Part 96, Subpart FFF or Subpart GGG.

- (v) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 40 CFR § 96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.
- (vi) A CAIR SO₂ allowance does not constitute a property right.
- (vii) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or Subpart GGG, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ unit's compliance account is incorporated automatically in this CAIR permit.

F. SO₂ excess emissions requirements

- (i) If a CAIR SO₂ source emits sulfur dioxides during any control period in excess of the CAIR SO₂ emissions limitation, the owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under 40 CFR § 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law.
- (ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable State law.

G. Recordkeeping and Reporting Requirements

- (i) Unless otherwise provided, the owners and operators of the CAIR NO_x source and each CAIR NO_x unit at the source and the CAIR SO₂ source and each CAIR SO₂ unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.
 - (1) The certificate of representation under 40 CFR §§ 96.113 and 96.213 for the CAIR NO_x designated representative for the source and each CAIR NO_x unit and the CAIR SO₂ designated representative for the source and each CAIR SO₂ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5 year period until such

documents are superseded because of the submission of a new certificate of representation under 40 CFR §§ 96.113 and 96.213 changing the CAIR designated representative.

- (2) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH and Subpart HHH, provided that to the extent that these subparts provide for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (3) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program or relied upon for compliance determinations.
 - (4) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program and CAIR SO₂ Trading Program.
 - (ii) The CAIR designated representative of a CAIR NO_x source and each CAIR NO_x unit at the source and a CAIR SO₂ source and each CAIR SO₂ unit at the source shall submit the reports required under the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program including those under 40 CFR Part 96, Subpart HH and Subpart HHH.
- H. The CAIR NO_x source and each CAIR NO_x unit shall meet the requirements of the CAIR NO_x Annual Trading Program contained in 40 CFR Part 96, Subparts AA through II.
- I. The CAIR SO₂ source and each CAIR SO₂ unit shall meet the requirements of the CAIR SO₂ Trading Program contained in 40 CFR Part 96, Subparts AAA through III.
- J. Any provision of the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program that applies to a CAIR NO_x source or CAIR SO₂ source or the CAIR designated representative of a CAIR NO_x source or CAIR SO₂ source shall also apply to the owners and operators of such source and the units at the source.
- K. Any provision of the CAIR NO_x Annual Trading Program and the CAIR SO₂ Trading Program that applies to a CAIR NO_x unit or CAIR SO₂ unit or the CAIR designated representative of a CAIR NO_x unit or CAIR SO₂ unit shall also apply to the owners and operators of such unit.

- L. No provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, a CAIR permit application, a CAIR permit, or an exemption under 40 CFR §§ 96.105 or 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source or CAIR NO_x unit or a CAIR SO₂ source or CAIR SO₂ unit from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRP-B-1	Boilers/Steam Generators/Steam Generating Units	1, 2	REG2-1	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRP-B-1	Boilers/Steam Generators/Steam Generating Units	1, 2	R7UT-1	30 TAC Chapter 117, Subchapter E, Division 1	No changing attributes.
GRP-B-1	Boilers/Steam Generators/Steam Generating Units	1, 2	R7UT-2	30 TAC Chapter 117, Subchapter E, Division 1	No changing attributes.
GRP-B-1	Boilers/Steam Generators/Steam Generating Units	1, 2	60Da-1	40 CFR Part 60, Subpart Da	Duct Burner = The unit is not a duct burner., D-Series Fuel Type #1 = Natural gas., SO ₂ Emission Rate = SO ₂ emission rate is less than 0.20 lb/MMBtu (86 ng/J) heat input.
GRP-B-1	Boilers/Steam Generators/Steam Generating Units	1, 2	60Da-2	40 CFR Part 60, Subpart Da	Duct Burner = The unit is not a duct burner., D-Series Fuel Type #1 = Solid fossil fuel., SO ₂ Emission Rate = SO ₂ emission rate is greater than or equal to 0.20 lb/MMBtu (86 ng/J) heat input but less than or equal to 0.60 lb/MMBtu (260 ng/J) heat input.
GRP-B-1	Boilers/Steam Generators/Steam Generating Units	1, 2	60Da-3	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Natural gas., D-Series Fuel Type #2 = Solid fossil fuel., SO ₂ Emission Rate = SO ₂ emission rate is

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
					greater than or equal to 0.20 lb/MMBtu (86 ng/J) heat input but less than or equal to 0.60 lb/MMBtu (260 ng/J) heat input.
GRP-B-1	Boilers/Steam Generators/Steam Generating Units	1, 2	60Da-4	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Natural gas., D-Series Fuel Type #2 = Solid fossil fuel., D-Series Fuel Type #3 = Other solid fossil fuel derived from another solid fossil fuel., SO ₂ Emission Rate = SO ₂ emission rate is greater than or equal to 0.20 lb/MMBtu (86 ng/J) heat input but less than or equal to 0.60 lb/MMBtu (260 ng/J) heat input.
GRP-B-1	Boilers/Steam Generators/Steam Generating Units	1, 2	60Da-5	40 CFR Part 60, Subpart Da	D-Series Fuel Type #1 = Solid fossil fuel., D-Series Fuel Type #2 = Other solid fossil fuel derived from another solid fossil fuel., SO ₂ Emission Rate = SO ₂ emission rate is greater than or equal to 0.20 lb/MMBtu (86 ng/J) heat input but less than or equal to 0.60 lb/MMBtu (260 ng/J) heat input.
GRP-FH-1	Coal Preparation Plants	FH-10, FH-11, FH-12, FH-13, FH-14, FH-1A, FH-1B, FH-1C, FH-2, FH-	60Y-1A	40 CFR Part 60, Subpart Y	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		3A, FH-3B, FH-4, FH-5, FH-6, FH- 8A, FH-8B, FH- 8C, FH-8D, FH- 9A, FH-9B			
GRP-BSTK-1	Emission Points/Stationary Vents/Process Vents	LMS-1, LMS-2	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
MCTEG	SRIC Engines	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-B-1	EU	REG2-1	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.8(a)	Except as in §112.8(b), no person may cause, suffer, allow, or permit emissions of SO ₂ from solid fossil fuel-fired steam generators to exceed 3.0 lb/MMBtu heat input averaged over a 3-hour period.	§ 112.2(a) § 112.8(d)	§ 112.2(c)	§ 112.2(b)
GRP-B-1	EU	R7UT-1	NO _x	30 TAC Chapter 117, Subchapter E, Division 1	§ 117.3020(c) § 117.3020(a) § 117.3020(b) § 117.3020(d) § 117.3020(e) § 117.3020(i) § 117.3020(j) § 117.3020(k) § 117.3020(l)	The annual average emission cap shall be calculated using the following equation.	§ 117.3020(d) § 117.3020(e) [G]§ 117.3020(e)(1) § 117.3020(h) § 117.3020(k) § 117.3040(a) § 117.3040(d) § 117.3040(d)(1) [G]§ 117.3040(d)(2) [G]§ 117.3040(d)(3) § 117.3040(h) § 117.3040(h)(1)	§ 117.3020(f) § 117.3045(a) [G]§ 117.3045(e)	§ 117.3020(g) § 117.3045(b) § 117.3045(b)(1) § 117.3045(b)(2) [G]§ 117.3045(c) [G]§ 117.3045(d) [G]§ 117.3054(a) [G]§ 117.3054(b) § 117.3054(c) § 117.3056
GRP-B-1	EU	R7UT-2	NO _x	30 TAC Chapter 117, Subchapter E, Division 1	§ 117.3020(c) § 117.3020(a) § 117.3020(b) § 117.3020(d) § 117.3020(e) § 117.3020(i) § 117.3020(j) § 117.3020(k) § 117.3020(l)	The annual average emission cap shall be calculated using the following equation.	§ 117.3020(d) § 117.3020(e) [G]§ 117.3020(e)(1) § 117.3020(h) § 117.3020(k) § 117.3040(a) § 117.3040(d) § 117.3040(d)(1) [G]§ 117.3040(d)(2) [G]§ 117.3040(d)(3) § 117.3040(h) § 117.3040(h)(1)	§ 117.3020(f) § 117.3045(a) [G]§ 117.3045(e)	§ 117.3020(g) § 117.3045(b) § 117.3045(b)(1) § 117.3045(b)(2) [G]§ 117.3045(c) [G]§ 117.3045(d) [G]§ 117.3054(a) [G]§ 117.3054(b) § 117.3054(c) § 117.3056
GRP-B-1	EU	60Da-1	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a)(1) § 60.48Da(a) § 60.48Da(c)	No owner or operator discharge any gases that contain PM in excess of 13 ng/J (0.03 lb/MMBtu) heat input derived from the	§ 60.50Da(a) § 60.50Da(b)(1) [G]§ 60.50Da(b)(2) [G]§ 60.50Da(e) ** See CAM	[G]§ 60.49Da(s)	[G]§ 60.49Da(s) § 60.51Da(a) [G]§ 60.51Da(h) § 60.51Da(j)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						combustion of solid, liquid, or gaseous fuel.	Summary		
GRP-B-1	EU	60Da-1	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) § 60.48Da(c)	No owner or operator shall discharge any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. Owners and operators that elect to install, calibrate, maintain and operate a CEMS for measuring PM emissions are exempt from the opacity standard.	§ 60.48Da(q) § 60.49Da(a)(1) § 60.49Da(i) § 60.49Da(i)(3) [G]§ 60.49Da(s) § 60.50Da(a) § 60.50Da(b)(3) [G]§ 60.50Da(e) ** See CAM Summary	[G]§ 60.49Da(s) [G]§ 60.52Da(b)	[G]§ 60.49Da(s) § 60.51Da(a) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(i) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-1	NO _x	40 CFR Part 60, Subpart Da	[G]§ 60.44Da(a) § 60.48Da(b) § 60.48Da(c)	No owner or operator shall discharge any gases that contain NO _x (expressed as NO ₂) in excess of the specified emission limits in §60.44Da(a)(1) and (a)(2), based on a 30-day rolling average basis. §60.44Da(a)(1)-(2)	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(h) § 60.49Da(c)(2) § 60.49Da(d) § 60.49Da(e) § 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h) § 60.49Da(h)(2) § 60.49Da(h)(3) § 60.49Da(h)(4) § 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(2) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 60.50Da(d) [G]§ 60.50Da(e)		
GRP-B-1	EU	60Da-1	SO ₂	40 CFR Part 60, Subpart Da	§60.43Da(b)(2) § 60.43Da(g) § 60.48Da(c) [G]§ 60.48Da(d)	No owner or operator shall discharge any gases that contain sulfur dioxide in excess of 100 percent of the potential combustion concentration (zero percent reduction) when emissions are less than 86 ng/J (0.20 lb/MMBtu) heat input.	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(g)(2) § 60.48Da(h) §60.49Da(j)(1) § 60.49Da(j)(3) § 60.49Da(j)(4) § 60.50Da(a) [G]§ 60.50Da(c) [G]§ 60.50Da(e)	None	[G]§60.48Da(d) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(3) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) [G]§ 60.51Da(d) [G]§ 60.51Da(e) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-2	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a)(1) § 60.42Da(a)(2) § 60.48Da(a) § 60.48Da(c)	No owner or operator discharge any gases that contain PM in excess of 13 ng/J (0.03 lb/MMBtu) heat input derived from the combustion of solid, liquid, or gaseous fuel.	§ 60.50Da(a) § 60.50Da(b)(1) [G]§ 60.50Da(b)(2) [G]§ 60.50Da(e) ** See CAM Summary	[G]§ 60.49Da(s)	[G]§ 60.49Da(s) § 60.51Da(a) [G]§ 60.51Da(h) § 60.51Da(j)
GRP-B-1	EU	60Da-2	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) § 60.48Da(c)	No owner or operator shall discharge any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. Owners and operators that elect to	§ 60.48Da(q) § 60.49Da(a)(1) § 60.49Da(i) § 60.49Da(i)(3) [G]§ 60.49Da(s) § 60.50Da(a) § 60.50Da(b)(3) [G]§ 60.50Da(e) ** See CAM	[G]§ 60.49Da(s) [G]§ 60.52Da(b)	[G]§ 60.49Da(s) § 60.51Da(a) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(i) § 60.51Da(j) § 60.51Da(k)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						install, calibrate, maintain and operate a CEMS for measuring PM emissions are exempt from the opacity standard.	Summary		
GRP-B-1	EU	60Da-2	NO _x	40 CFR Part 60, Subpart Da	[G]§ 60.44Da(a) § 60.48Da(b) § 60.48Da(c)	No owner or operator shall discharge any gases that contain NO _x (expressed as NO ₂) in excess of the specified emission limits in §60.44Da(a)(1) and (a)(2), based on a 30-day rolling average basis. §60.44Da(a)(1)-(2)	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(h) § 60.49Da(c)(2) § 60.49Da(d) § 60.49Da(e) § 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h) § 60.49Da(h)(2) § 60.49Da(h)(3) § 60.49Da(h)(4) § 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(2) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(d) [G]§ 60.50Da(e)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-2	SO ₂	40 CFR Part 60, Subpart Da	§ 60.43Da(a)(2) § 60.43Da(g) [G]§ 60.48Da(d)	No owner or operator shall discharge any gases that contain sulfur dioxide in excess of 30 percent of the potential combustion concentration (70 percent reduction), when emissions are less than 260 ng/J (0.60 lb/MMBtu) heat input.	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(g)(2) § 60.48Da(h) § 60.49Da(b) [G]§ 60.49Da(b)(4) § 60.49Da(d) § 60.49Da(e)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.48Da(d) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(3) § 60.51Da(b)(4)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h) § 60.49Da(h)(1) § 60.49Da(h)(3) § 60.49Da(h)(4) § 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(1) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(c) [G]§ 60.50Da(e)		§ 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) [G]§ 60.51Da(d) [G]§ 60.51Da(e) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-3	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a)(1) § 60.42Da(a)(2) § 60.48Da(a) § 60.48Da(c)	No owner or operator discharge any gases that contain PM in excess of 13 ng/J (0.03 lb/MMBtu) heat input derived from the combustion of solid, liquid, or gaseous fuel.	§ 60.50Da(a) § 60.50Da(b)(1) [G]§ 60.50Da(b)(2) [G]§ 60.50Da(e) ** See CAM Summary	[G]§ 60.49Da(s)	[G]§ 60.49Da(s) § 60.51Da(a) [G]§ 60.51Da(h) § 60.51Da(j)
GRP-B-1	EU	60Da-3	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) § 60.48Da(c)	No owner or operator shall discharge any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. Owners and operators that elect to install, calibrate, maintain and operate a CEMS for measuring PM emissions are exempt from the opacity standard.	§ 60.48Da(q) § 60.49Da(a)(1) § 60.49Da(i) § 60.49Da(i)(3) [G]§ 60.49Da(s) § 60.50Da(a) § 60.50Da(b)(3) [G]§ 60.50Da(e) ** See CAM Summary	[G]§ 60.49Da(s) [G]§ 60.52Da(b)	[G]§ 60.49Da(s) § 60.51Da(a) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(i) § 60.51Da(j) § 60.51Da(k)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRP-B-1	EU	60Da-3	NO _x	40 CFR Part 60, Subpart Da	§ 60.44Da(c) § 60.48Da(c)	When two or more fuels are combusted simultaneously, the applicable NO _x standard is determined by proration using the specified formula.	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(h) § 60.49Da(c)(2) § 60.49Da(d) § 60.49Da(e) § 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h) § 60.49Da(h)(2) § 60.49Da(h)(3) § 60.49Da(h)(4) § 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(2) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(d) [G]§ 60.50Da(e)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-3	SO ₂	40 CFR Part 60, Subpart Da	§ 60.43Da(h)(2) § 60.43Da(g) [G]§ 60.48Da(d)	When different fuels are combusted simultaneously, the applicable standard is determined by proration using the specified formula for emissions of sulfur dioxide equal to or less than 260 ng/J (0.60 lb/MMBtu) heat input:	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(g)(2) § 60.48Da(h) § 60.49Da(b) [G]§ 60.49Da(b)(4) § 60.49Da(d) § 60.49Da(e) § 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h) § 60.49Da(h)(1) § 60.49Da(h)(3) § 60.49Da(h)(4)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.48Da(d) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) [G]§ 60.51Da(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(1) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(c) [G]§ 60.50Da(e)		[G]§ 60.51Da(e) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-4	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a)(1) § 60.42Da(a)(2) § 60.48Da(a) § 60.48Da(c)	No owner or operator discharge any gases that contain PM in excess of 13 ng/J (0.03 lb/MMBtu) heat input derived from the combustion of solid, liquid, or gaseous fuel.	§ 60.50Da(a) § 60.50Da(b)(1) [G]§ 60.50Da(b)(2) [G]§ 60.50Da(e) ** See CAM Summary	[G]§ 60.49Da(s)	[G]§ 60.49Da(s) § 60.51Da(a) [G]§ 60.51Da(h) § 60.51Da(j)
GRP-B-1	EU	60Da-4	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) § 60.48Da(c)	No owner or operator shall discharge any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. Owners and operators that elect to install, calibrate, maintain and operate a CEMS for measuring PM emissions are exempt from the opacity standard.	§ 60.48Da(q) § 60.49Da(a)(1) § 60.49Da(i) § 60.49Da(i)(3) [G]§ 60.49Da(s) § 60.50Da(a) § 60.50Da(b)(3) [G]§ 60.50Da(e) ** See CAM Summary	[G]§ 60.49Da(s) [G]§ 60.52Da(b)	[G]§ 60.49Da(s) § 60.51Da(a) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(i) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-4	NO _x	40 CFR Part 60, Subpart Da	§ 60.44Da(c) § 60.48Da(c)	When two or more fuels are combusted simultaneously, the applicable NO _x standard is determined by proration using the	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(h) § 60.49Da(c)(2)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						specified formula.	§ 60.49Da(d) § 60.49Da(e) § 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h) § 60.49Da(h)(2) § 60.49Da(h)(3) § 60.49Da(h)(4) § 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(2) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(d) [G]§ 60.50Da(e)		§ 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-4	SO ₂	40 CFR Part 60, Subpart Da	§ 60.43Da(h)(2) § 60.43Da(g) [G]§ 60.48Da(d)	When different fuels are combusted simultaneously, the applicable standard is determined by proration using the specified formula for emissions of sulfur dioxide equal to or less than 260 ng/J (0.60 lb/MMBtu) heat input:	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(g)(2) § 60.48Da(h) § 60.49Da(b) [G]§ 60.49Da(b)(4) § 60.49Da(d) § 60.49Da(e) § 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h) § 60.49Da(h)(1) § 60.49Da(h)(3) § 60.49Da(h)(4) § 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(1) § 60.49Da(j)(3)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.48Da(d) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) [G]§ 60.51Da(d) [G]§ 60.51Da(e) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(c) [G]§ 60.50Da(e)		
GRP-B-1	EU	60Da-5	PM	40 CFR Part 60, Subpart Da	§ 60.42Da(a)(1) § 60.42Da(a)(2) § 60.48Da(a) § 60.48Da(c)	No owner or operator discharge any gases that contain PM in excess of 13 ng/J (0.03 lb/MMBtu) heat input derived from the combustion of solid, liquid, or gaseous fuel.	§ 60.50Da(a) § 60.50Da(b)(1) [G]§ 60.50Da(b)(2) [G]§ 60.50Da(e) ** See CAM Summary	[G]§ 60.49Da(s)	[G]§ 60.49Da(s) § 60.51Da(a) [G]§ 60.51Da(h) § 60.51Da(j)
GRP-B-1	EU	60Da-5	PM (OPACITY)	40 CFR Part 60, Subpart Da	§ 60.42Da(b) § 60.48Da(c)	No owner or operator shall discharge any gases which exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. Owners and operators that elect to install, calibrate, maintain and operate a CEMS for measuring PM emissions are exempt from the opacity standard.	§ 60.48Da(q) § 60.49Da(a)(1) § 60.49Da(i) § 60.49Da(i)(3) [G]§ 60.49Da(s) § 60.50Da(a) § 60.50Da(b)(3) [G]§ 60.50Da(e) ** See CAM Summary	[G]§ 60.49Da(s) [G]§ 60.52Da(b)	[G]§ 60.49Da(s) § 60.51Da(a) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(i) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-5	NO _x	40 CFR Part 60, Subpart Da	§ 60.44Da(c) § 60.48Da(c)	When two or more fuels are combusted simultaneously, the applicable NO _x standard is determined by proration using the specified formula.	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(h) § 60.49Da(c)(2) § 60.49Da(d) § 60.49Da(e) § 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							§ 60.49Da(h)(2) § 60.49Da(h)(3) § 60.49Da(h)(4) § 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(2) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(d) [G]§ 60.50Da(e)		§ 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)
GRP-B-1	EU	60Da-5	SO ₂	40 CFR Part 60, Subpart Da	§ 60.43Da(a)(2) § 60.43Da(g) [G]§ 60.48Da(d)	No owner or operator shall discharge any gases that contain sulfur dioxide in excess of 30 percent of the potential combustion concentration (70 percent reduction), when emissions are less than 260 ng/J (0.60 lb/MMBtu) heat input.	§ 60.48Da(e) § 60.48Da(f) § 60.48Da(g)(1) § 60.48Da(g)(2) § 60.48Da(h) § 60.49Da(b) [G]§ 60.49Da(b)(4) § 60.49Da(d) § 60.49Da(e) § 60.49Da(f)(1) § 60.49Da(g) § 60.49Da(h) § 60.49Da(h)(1) § 60.49Da(h)(3) § 60.49Da(h)(4) § 60.49Da(i) § 60.49Da(i)(1) § 60.49Da(i)(2) § 60.49Da(j)(1) § 60.49Da(j)(3) § 60.49Da(j)(4) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.50Da(a) [G]§ 60.50Da(c)	[G]§ 60.49Da(s) [G]§ 60.49Da(w)	[G]§ 60.48Da(d) [G]§ 60.49Da(s) [G]§ 60.49Da(w) § 60.51Da(a) § 60.51Da(b) § 60.51Da(b)(1) § 60.51Da(b)(2) § 60.51Da(b)(3) § 60.51Da(b)(4) § 60.51Da(b)(5) § 60.51Da(b)(6) § 60.51Da(b)(7) § 60.51Da(b)(8) § 60.51Da(b)(9) [G]§ 60.51Da(c) [G]§ 60.51Da(d) [G]§ 60.51Da(e) § 60.51Da(f) [G]§ 60.51Da(h) § 60.51Da(j) § 60.51Da(k)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 60.50Da(e)		
GRP-FH-1	EU	60Y-1A	PM (OPACITY)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.256(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.256(a) § 60.256(a)(2) ** See Periodic Monitoring Summary	None	None
GRP-BSTK-1	EP	R1111-1	OPACITY	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E) § 111.111(a)(2)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F) § 111.111(a)(2) ** See CAM Summary	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
MCTEG	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(b) [G]§ 63.6640(f)(1)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(a)(2) § 63.6655(a)(4) § 63.6655(a)(5) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
								§ 63.6660(c)	

Additional Monitoring Requirements

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CAM Summary

Unit/Group/Process Information	
ID No.: GRP-B-1	
Control Device ID No.: ESP	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Da	SOP Index No.: 60Da-1, 60Da-2, 60Da-3, 60Da-4, 60Da-5
Pollutant: PM	Main Standard: § 60.42Da(a)(1)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 15% opacity (six-minute average) is a deviation.	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: GRP-B-1	
Control Device ID No.: ESP	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Da	SOP Index No.: 60Da-1, 60Da-2, 60Da-3, 60Da-4 60Da-5
Pollutant: PM (OPACITY)	Main Standard: § 60.42Da(b)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 15% opacity (six-minute average) is a deviation.	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

CAM Summary

Unit/Group/Process Information	
ID No.: GRP-BSTK-1	
Control Device ID No.: ESP	Control Device Type: Wet or Dry Electrostatic Precipitator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: Greater than 15% opacity (6 minute average) is a deviation.	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-FH-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-1A
Pollutant: PM (OPACITY)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: An opacity reading greater than 20% is a deviation	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions.</p> <p>If the result of the Test Method 9 is an opacity above the corresponding opacity limit, the permit holder shall report a deviation.</p>	

Permit Shield

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Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
LMSUNLOAD	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Unit is not located in Aransas, Bexar, Calhoun, Gregg, Matagorda, Nueces, San Patricio, Travis or Victoria county, and is transferring only non-gasoline VOC.
A-103-1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-103-2	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-104	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-105	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-106	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-107	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-108	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-109	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-114	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-150	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-151	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-152	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-153-1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-153-2	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
A-153-3	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-153-4	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-157	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-158-1	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-158-2	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-160	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-161	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-162	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-163	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
A-905	N/A	40 CFR Part 60, Subpart Kb	Tank capacity is less than 19,800 gallons.
GRP-LMHS-1	LM-1, LM-1A, LM-2, LM-3, LM-4, LM-5, LM-6	40 CFR Part 60, Subpart OOO	Constructed before August 31, 1983.
LMSGAS	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Unloading operation is a motor vehicle fuel dispensing facility.
FGDEG1	N/A	40 CFR Part 63, Subpart ZZZZ	Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
FGDEG2	N/A	40 CFR Part 63, Subpart ZZZZ	Existing emergency stationary RICE with a site

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
			rating of more than 500 brake HP located at a major source of HAP emissions.
PBEG1	N/A	40 CFR Part 63, Subpart ZZZZ	Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
PBEG2	N/A	40 CFR Part 63, Subpart ZZZZ	Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
SWDAEG	N/A	40 CFR Part 63, Subpart ZZZZ	Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

New Source Review Authorization References

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New Source Review Authorization References by Emission Unit..... 54

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX371M5	Issuance Date: 12/20/2013
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 51712	Issuance Date: 03/22/2012
Authorization No.: 8576	Issuance Date: 12/20/2013
Authorization No.: 8579	Issuance Date: 12/20/2013
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.262	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.477	Version No./Date: 09/04/2000
Number: 106.533	Version No./Date: 09/04/2000
Number: 5	Version No./Date: 06/07/1996
Number: 8	Version No./Date: 06/07/1996
Number: 14	Version No./Date: 06/07/1996
Number: 34	Version No./Date: 06/07/1996
Number: 39	Version No./Date: 06/07/1996
Number: 51	Version No./Date: 06/07/1996
Number: 53	Version No./Date: 06/07/1996
Number: 61	Version No./Date: 06/07/1996
Number: 68	Version No./Date: 06/07/1996
Number: 107	Version No./Date: 06/07/1996

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
1	Unit 1 Boiler	8576, PSDTX371M5
2	Unit 2 Boiler	8576, PSDTX371M5
A-103-1	Lube Oil Tank	051/06/07/1996
A-103-2	Lube Oil Tank	051/06/07/1996
A-104	Diesel Tank	051/06/07/1996
A-105	Diesel Tank	051/06/07/1996
A-106	Diesel Tank	051/06/07/1996
A-107	Diesel Tank	051/06/07/1996
A-108	Used Oil Tank	051/06/07/1996
A-109	Used Oil Tank	051/06/07/1996
A-114	Diesel Tank	051/06/07/1996
A-150	Motor Oil Tank	051/06/07/1996
A-151	Motor Oil Tank	051/06/07/1996
A-152	Motor Oil Tank	051/06/07/1996
A-153-1	Motor Oil Tank	051/06/07/1996
A-153-2	Motor Oil Tank	051/06/07/1996
A-153-3	Motor Oil Tank	051/06/07/1996
A-153-4	Motor Oil Tank	051/06/07/1996

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
A-157	Unleaded Gasoline Tank	053/06/07/1996
A-158-1	Diesel Tank	051/06/07/1996
A-158-2	Diesel Tank	051/06/07/1996
A-160	Motor Oil Tank	051/06/07/1996
A-161	Diesel Tank	051/06/07/1996
A-162	Diesel Tank	051/06/07/1996
A-163	Diesel Tank	051/06/07/1996
A-905	Lube Oil Tank	051/06/07/1996
FGDEG1	Unit 1 FGD Emergency Engine	005/06/07/1996
FGDEG2	Unit 2 FGD Emergency Engine	005/06/07/1996
FH-10	Fuel Handling Inactive Storage Pile	8579, PSDTX371M5
FH-11	Fuel Handling Emergency Storage Pile	8579, PSDTX371M5
FH-12	Fuel Handling Transfer Tower No 31	8579, PSDTX371M5
FH-13	Fuel Handling Railcar Unloader Conveyour C-31	8579, PSDTX371M5
FH-14	Fuel Handling Rail Car Unloader	8579, PSDTX371M5
FH-1A	Fuel Handling Lignite Mine Trnsfr Silo Baghse Stk	8579, PSDTX371M5
FH-1B	Fuel Handling Overland Conveyor	8579, PSDTX371M5
FH-1C	Fuel Handling Transfer Tower No. 4 Baghouse Stack	8579, PSDTX371M5

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
FH-2	Fuel Handling Transfer Tower No. 1Y Baghouse Stk	8579, PSDTX371M5
FH-3A	Fuel Handling Active Stg Pile A Rclm Baghouse Stk	8579, PSDTX371M5
FH-3B	Fuel Handling Active Stg Pile B Rclm Baghouse Stk	8579, PSDTX371M5
FH-4	Fuel Handling Crusher House Baghouse Stack	8579, PSDTX371M5
FH-5	Fuel Handling Transfer Tower No. 2 Baghouse Stack	8579, PSDTX371M5
FH-6	Fuel Handling Transfer Tower No. 3 Baghouse Stack	8579, PSDTX371M5
FH-8A	Fuel Handling Silo Gallery A Unit No. 1 Bghse Stk	8579, PSDTX371M5
FH-8B	Fuel Handling Silo Gallery B Unit No. 1 Bghse Stk	8579, PSDTX371M5
FH-8C	Fuel Handling Silo Gallery C Unit No. 2 Bghse Stk	8579, PSDTX371M5
FH-8D	Fuel Handling Silo Gallery D Unit No. 2 Bghse Stk	8579, PSDTX371M5
FH-9A	Fuel Handling Transfer Tower Pile A	8579, PSDTX371M5
FH-9B	Fuel Handling Active Storage Pile B	8579, PSDTX371M5
LM-1A	Limestone Handling Railcar Unloading Facility	8579, PSDTX371M5
LM-1	Limestone Handling Unloader Hipper Vault Bghse Stk	8579, PSDTX371M5
LM-2	Limestone Handling Shuttle Conveyor Baghouse Stack	8579, PSDTX371M5
LM-3	Limestone Handling Reclaim Baghouse Stack	8579, PSDTX371M5
LM-4	Limestone Handling Transfer Tower Baghouse Stack	8579, PSDTX371M5
LM-5	Limestone Handling Feed Silos Baghouse Stack	8579, PSDTX371M5

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
LM-6	Limestone Handling Storage Pile	8579, PSDTX371M5
LMS-1	Boiler Unit 1 Scrubber Stack	8576, 97947, PSDTX371M5
LMS-2	Boiler Unit 2 Scrubber Stack	8576, 97947, PSDTX371M5
LMSGAS	Gasoline Unloading	053/06/07/1996
LMSUNLOAD	LMS Unloading	051/06/07/1996
MCTEG	MCT Emergency Engine	005/06/07/1996
PBEG1	Unit 1 Power Block Emergency Engine	005/06/07/1996
PBEG2	Unit 2 Power Block Emergency Engine	005/06/07/1996
SWDAEG	SWDA Emergency Engine	005/06/07/1996

Appendix A

Acronym List	59
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Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	.....actual cubic feet per minute
AMOC	.....alternate means of control
ARP	.....Acid Rain Program
ASTM	.....American Society of Testing and Materials
B/PA	.....Beaumont/Port Arthur (nonattainment area)
CAM	.....Compliance Assurance Monitoring
CD	.....control device
COMS	.....continuous opacity monitoring system
CVS	.....closed-vent system
D/FW	.....Dallas/Fort Worth (nonattainment area)
DR	.....Designated Representative
ELP	.....El Paso (nonattainment area)
EP	.....emission point
EPA	.....U.S. Environmental Protection Agency
EU	.....emission unit
FCAA Amendments	.....Federal Clean Air Act Amendments
FOP	.....federal operating permit
GF	.....grandfathered
gr/100 scf	.....grains per 100 standard cubic feet
HAP	.....hazardous air pollutant
H/G/B	.....Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	.....hydrogen sulfide
ID No.	.....identification number
lb/hr	.....pound(s) per hour
MMBtu/hr	.....Million British thermal units per hour
MRRT	.....monitoring, recordkeeping, reporting, and testing
NA	.....nonattainment
N/A	.....not applicable
NADB	.....National Allowance Data Base
NO _x	.....nitrogen oxides
NSPS	.....New Source Performance Standard (40 CFR Part 60)
NSR	.....New Source Review
ORIS	.....Office of Regulatory Information Systems
Pb	.....lead
PBR	.....Permit By Rule
PM	.....particulate matter
ppmv	.....parts per million by volume
PSD	.....prevention of significant deterioration
RO	.....Responsible Official
SO ₂	.....sulfur dioxide
TCEQ	.....Texas Commission on Environmental Quality
TSP	.....total suspended particulate
TVP	.....true vapor pressure
U.S.C.	.....United States Code
VOC	.....volatile organic compound

Appendix B

Major NSR Summary Table..... 61

Major NSR Summary Table

Permit Number: 8576, PSDTX371M5					Issuance Date: 12/20/2013		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (4)(5)	TPY (4)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
LMS1	Boiler Unit 1 Scrubber Stack	NO _x	2,265	9,425	2, 12, 24	2, 11, 12, 16, 17, 23	2, 11, 12
		SO ₂ (3-hour rolling average)	9,000	28,378	2, 12, 14, 24	2, 4, 7, 12, 14, 16, 17, 23	2, 4, 12, 14
		SO ₂ (24-hour rolling average)	6,479	--	2, 12, 14, 24	2, 4, 7, 12, 14, 16, 17, 23	2, 4, 12, 14
		PM	272	1,191	2, 5**, 9, 10, 12**, 15	2, 9, 10, 12**, 15, 16, 17, 19	2, 9, 10, 12**
		PM ₁₀	245	1,072	2, 5**, 9, 10, 12**, 15	2, 9, 10, 12**, 15, 16, 17, 19	2, 9, 10, 12**
		PM _{2.5}	208	913	2, 5**, 9, 10, 12**, 15	2, 9, 10, 12**, 15, 16, 17, 19	2, 9, 10, 12**
		PM (7)	7,616	--	12**, 24**	12**, 23	12**
		PM ₁₀ (7)	5,103	--	12**, 24**	12**, 23	12**
		PM _{2.5} (7)	2,209	--	12**, 24**	12**, 23	12**
		CO (1-hour average)	5,980	3,823	12, 24	11, 12, 17, 23	11, 12
		CO (24-hour average)	2,990	--	12, 24	11, 12, 17, 23	11, 12
		VOC	52.7	231	9, 10	9, 10, 16, 17	9, 10
		VOC (7)	52.8	--	--	23	--
		H ₂ SO ₄	245	1,071	--	--	--
		Pb	0.26	0.46	--	--	--
		As	0.17	0.39	--	--	--
		Be	0.07	0.05	--	--	--
		Cd	0.06	0.12	--	--	--
		Cr	0.49	0.78	--	--	--
		HCl	122.1	274.9	--	--	--
		HF	81.4	87.4	--	--	--
		Mn	1.23	1.28	--	--	--
		Hg (8)	0.4	0.74	--	--	--
		Ni	0.49	1.59	--	--	--
		Se	10.79	5.7	--	--	--
		V	2.1	6.9	--	--	--

Major NSR Summary Table

Permit Number: 8576, PSDTX371M5					Issuance Date: 12/20/2013		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (4)(5)	TPY (4)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
LMS2	Boiler Unit 2 Scrubber Stack	NO _x	2,265	9,425	2, 12, 24	2, 11, 12, 16, 17, 23	2, 11, 12
		SO ₂ (3-hour rolling average)	9,000	28,378	2, 12, 14, 24	2, 4, 7, 12, 14, 16, 17, 23	2, 4, 12, 14
		SO ₂ (24-hour rolling average)	6,479	--	2, 12, 14, 24	2, 4, 7, 12, 14, 16, 17, 23	2, 4, 12, 14
		PM	272	1,191	2, 5**, 9, 10, 12**, 15	2, 9, 10, 12**, 15, 16, 17, 19	2, 9, 10, 12**
		PM ₁₀	245	1,072	2, 5**, 9, 10, 12**, 15	2, 9, 10, 12**, 15, 16, 17, 19	2, 9, 10, 12**
		PM _{2.5}	208	913	2, 5**, 9, 10, 12**, 15	2, 9, 10, 12**, 15, 16, 17, 19	2, 9, 10, 12**
		PM (7)	7,616	--	12**, 24**	12**, 23	12**
		PM ₁₀ (7)	5,103	--	12**, 24**	12**, 23	12**
		PM _{2.5} (7)	2,209	--	12**, 24**	12**, 23	12**
		CO (1-hour average)	5,980	3,823	12, 24	11, 12, 17, 23	11, 12
		CO (24-hour average)	2,990	--	12, 24	11, 12, 17, 23	11, 12
		VOC	52.7	231	9, 10	9, 10, 16, 17	9, 10
		VOC (7)	52.8	--	--	23	--
		H ₂ SO ₄	245	1,071	--	--	--
		Pb	0.26	0.46	--	--	--
		As	0.17	0.39	--	--	--
		Be	0.07	0.05	--	--	--
		Cd	0.06	0.12	--	--	--
		Cr	0.49	0.78	--	--	--
		HCl	122.1	274.9	--	--	--
		HF	81.4	87.4	--	--	--
		Mn	1.23	1.28	--	--	--
		Hg (8)	0.4	0.74	--	--	--
		Ni	0.49	1.59	--	--	--
		Se	10.79	5.7	--	--	--
		V	2.1	6.9	--	--	--

Notes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)

NO _x	-	total oxides of nitrogen
SO ₂	-	sulfur dioxide
PM	-	particulate matter, suspended in the atmosphere, including PM ₁₀ .
PM ₁₀	-	particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns in emitted.
CO	-	carbon monoxide
VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
H ₂ SO ₄	-	sulfuric acid mist
Pb	-	lead
As	-	arsenic
Be	-	beryllium
Cd	-	cadmium
Cr	-	chromium
HCl	-	hydrogen chloride
HF	-	hydrogen fluoride
Mn	-	manganese
Hg	-	mercury
Ni	-	nickel
Se	-	selenium
V	-	vanadium
- (4) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (5) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (6) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (7) MSS hourly emission limit only. The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (8) The annual Hg limit of 0.74 tpy remains in effect for 12 months following the compliance date specified in 40 CFR Part 63, Subpart UUUUU. After such time, EPNs LMS1 and LMS2 shall comply with an annual Hg limit of 0.16 tpy.

* Emission rates are based on the following operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/yr 8,760

** Opacity is used as an indicator of PM emissions, but the opacity limits in the permit are not directly correlated to the PM limit in the MAERT; therefore, non-compliance with the opacity limit does not constitute non-compliance with the PM limit.

Major NSR Summary Table

Permit Number: 8579, PSDTX371M5					Issuance Date: 12/20/2013		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (5)	TPY (5)(6)			
FH-1A	Fuel Handling Lignite Mine Transfer Silo	PM	0.5	2.19	2, 5**	2, 13	2
		PM ₁₀	0.24	1.05	2, 5**	2, 13	2
FH-1B	Fuel Handling Overland Conveyor	PM	4.3	7.92	2, 5**	2, 13	2
		PM ₁₀	2.04	3.75	2, 5**	2, 13	2
FH-1C	Fuel Handling Transfer Tower No. 4	PM	0.25	1.1	2, 5**	2, 13	2
		PM ₁₀	0.12	0.53	2, 5**	2, 13	2
FH-2	Fuel Handling Transfer Tower No. 1Y	PM	1.51	6.61	2, 5**	2, 13	2
		PM ₁₀	0.72	3.15	2, 5**	2, 13	2
FH-3A	Fuel Handling Active Storage Pile A Reclaim	PM	1.01	4.42	2, 5**	2, 13	2
		PM ₁₀	0.48	2.1	2, 5**	2, 13	2
FH-3B	Fuel Handling Active Storage Pile B Reclaim	PM	1.01	4.42	2, 5**	2, 13	2
		PM ₁₀	0.48	2.1	2, 5**	2, 13	2
FH-4	Fuel Handling Crusher House	PM	0.76	3.33	2, 5**	2, 13	2
		PM ₁₀	0.36	1.58	2, 5**	2, 13	2
FH-5	Fuel Handling Transfer Tower No. 2	PM	0.76	3.33	2, 5**	2, 13	2
		PM ₁₀	0.36	1.58	2, 5**	2, 13	2
FH-6	Fuel Handling Transfer Tower No. 3	PM	1.01	4.42	2, 5**	2, 13	2
		PM ₁₀	0.48	2.1	2, 5**	2, 13	2
FH-8A	Fuel Handling Silo Gallery A Unit No. 1	PM	0.76	3.33	2, 5**, 6**, 10, 12	2, 12, 13, 14	2, 12
		PM ₁₀	0.36	1.58	2, 5**, 6**, 10, 12	2, 12, 13, 14	2, 12
FH-8B	Fuel Handling Silo Gallery B Unit No. 1	PM	0.76	3.33	2, 5**, 6**, 10, 12	2, 12, 13, 14	2, 12
		PM ₁₀	0.36	1.58	2, 5**, 6**, 10, 12	2, 12, 13, 14	2, 12
FH-8C	Fuel Handling Silo Gallery C Unit No. 2	PM	0.76	3.33	2, 5**, 6**, 10, 12	2, 12, 13, 14	2, 12
		PM ₁₀	0.36	1.58	2, 5**, 6**, 10, 12	2, 12, 13, 14	2, 12
FH-8D	Fuel Handling Silo Gallery D Unit No. 2	PM	0.76	3.33	2, 5**, 6**, 10, 12	2, 12, 13, 14	2, 12
		PM ₁₀	0.36	1.58	2, 5**, 6**, 10, 12	2, 12, 13, 14	2, 12
FH-9A	Fuel Handling Active Storage Pile A (4)	PM	--	1.58	2, 5**	2, 13	2
		PM ₁₀	--	0.78	2, 5**	2, 13	2
FH-9B	Fuel Handling Active Storage Pile B (4)	PM	--	1.58	2, 5**	2, 13	2
		PM ₁₀	--	0.78	2, 5**	2, 13	2
FH-10	Fuel Handling Inactive Storage Pile (4)	PM	--	18.34	2, 5**	2, 13	2
		PM ₁₀	--	8.99	2, 5**	2, 13	2
FH-11	Fuel Handling Emergency Storage Pile (4)	PM	--	0.42	2, 5**	2, 13	2
		PM ₁₀	--	0.21	2, 5**	2, 13	2

Major NSR Summary Table

Permit Number: 8579, PSDTX371M5				Issuance Date: 12/20/2013			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (5)	TPY (5)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
FH-12	Fuel Handling Transfer Tower TT-31	PM	0.91	1.13	2, 5**	2, 13	2
		PM ₁₀	0.43	0.54	2, 5**	2, 13	2
FH-13	Fuel Handling Railcar Unloader Conveyor C31 (4)	PM	0.42	0.52	2, 5**	2, 13	2
		PM ₁₀	0.2	0.25	2, 5**	2, 13	2
FH-14	Fuel Handling Railcar Unloader (4)	PM	1.15	1.44	2, 5**	2, 13	2
		PM ₁₀	0.54	0.68	2, 5**	2, 13	2
LAS-1A	Fuel Handling Lime Addition Silo A Baghouse Stack	PM ₁₀	0.08	0.28	5**, 6**, 10, 12	12, 13, 14	12
LAS-1B	Fuel Handling Lime Addition Silo B Baghouse Stack	PM ₁₀	0.08	0.28	5**, 6**, 10, 12	12, 13, 14	12
LM-1A	Limestone Handling Railcar Unloading Facility (4)	PM	0.6	0.3	5**	13	--
		PM ₁₀	0.3	0.15	5**	13	--
LM-1	Limestone Handling Unloader and Hopper Vault Baghouse Stack	PM ₁₀	1.29	5.65	5**, 6**, 10, 12	12, 13, 14	12
LM-2	Limestone Handling Shuttle Conveyor Baghouse Stack	PM ₁₀	0.77	3.37	5**, 6**, 10, 12	12, 13, 14	12
LM-3	Limestone Handling Reclaim Baghouse Stack	PM ₁₀	0.51	2.23	5**, 6**, 10, 12	12, 13, 14	12
LM-4	Limestone Handling Transfer Tower Baghouse Stack	PM ₁₀	1.71	7.49	5**, 6**, 10, 12	12, 13, 14	12
LM-5	Limestone Handling Feed Silos Baghouse Stack	PM ₁₀	0.61	2.67	5**, 6**, 10, 12	12, 13, 14	12
LM-6	Limestone Handling Storage Pile (4)	PM	--	0.42	5**	13	--
		PM ₁₀	--	0.21	5**	13	--
WH-1A	Waste Handling Fly Ash Silo No. 1 Baghouse Stack	PM ₁₀	1.59	6.96	5**, 6**, 8, 10, 12	12, 13, 14	12
WH-1B	Waste Handling Fly Ash Silo No. 2 Baghouse Stack	PM ₁₀	1.59	6.96	5**, 6**, 8, 10, 12	12, 13, 14	12
WH-1C	Waste Handling Fly Ash Truck Loading Operation (4)	PM	0.95	0.19	5**	13	--
		PM ₁₀	0.26	0.05	5**	13	--
WH-1D	Waste Handling Fly Ash Bag Loading Operation (4)	PM	0.03	0.13	5**	13	--
		PM ₁₀	0.02	0.08	5**	13	--

Major NSR Summary Table

Permit Number: 8579, PSDTX371M5					Issuance Date: 12/20/2013		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (5)	TPY (5)(6)	Spec. Cond.	Spec. Cond.	Spec. Cond.
WH-1E	Waste Handling Fly Ash Truck Loading Operation (4)	PM	0.95	0.19	5**	13	--
		PM ₁₀	0.26	0.05	5**	13	--
WH-1F	Waste Handling Fly Ash Truck to Railcar Loading Operation (4)	PM	0.95	0.19	5**	13	--
		PM ₁₀	0.26	0.05	5**	13	--
WH-2A	Waste Handling Fly Ash Storage Silo A Baghouse Stack	PM ₁₀	1.15	5.04	5**, 6**, 8, 10, 12	12, 13, 14	12
WH-2B	Waste Handling Fly Ash Storage Silo B Baghouse Stack	PM ₁₀	1.15	5.04	5**, 6**, 8, 10, 12	12, 13, 14	12
WH-2C	Waste Handling Fly Ash Storage Silo C Baghouse Stack	PM ₁₀	1.15	5.04	5**, 6**, 8, 10, 12	12, 13, 14	12
WH-4A	Waste Handling Pugmill A Wet Scrubber Stack	PM ₁₀	0.17	0.74	5**, 6**, 10, 12	12, 13, 14	12
WH-4B	Waste Handling Pugmill B Wet Scrubber Stack	PM ₁₀	0.17	0.74	5**, 6**, 10, 12	12, 13, 14	12
WH-4C	Waste Handling Pugmill C Wet Scrubber Stack	PM ₁₀	0.17	0.74	5**, 6**, 10, 12	12, 13, 14	12
WH-5A	Waste Handling Stabilized Sludge Conveyor A (4)	PM	0.04	0.04	5**	13	--
		PM ₁₀	0.02	0.02	5**	13	--
WH-5B	Waste Handling Stabilized Sludge Conveyor B (4)	PM	0.04	0.04	5**	13	--
		PM ₁₀	0.02	0.02	5**	13	--
WH-5C	Waste Handling Stabilized Sludge Conveyor C (4)	PM	0.04	0.04	5**	13	--
		PM ₁₀	0.02	0.02	5**	13	--
WH-6A	Waste Handling Stabilized Sludge Conveyor Stackout A (4)	PM	--	0.34	5**	13	--
		PM ₁₀	--	0.17	5**	13	--
WH-6B	Waste Handling Stabilized Sludge Conveyor Stackout B (4)	PM	--	0.34	5**	13	--
		PM ₁₀	--	0.17	5**	13	--
WH-6C	Waste Handling Stabilized Sludge Conveyor Stackout C (4)	PM	--	0.34	5**	13	--
		PM ₁₀	--	0.17	5**	13	--
LF-1	Waste Handling Landfill (4)	PM	--	26.17	5**	13	--
		PM ₁₀	--	13.1	5**	13	--
MCT-1	Unit 1 Main Cooling Tower	PM ₁₀	5.78	21.11	--	--	--
MCT-2	Unit 2 Main Cooling Tower	PM ₁₀	5.78	21.11	--	--	--
ACT-1	Auxiliary Cooling Tower No. 1	PM ₁₀	0.29	0.95	--	--	--

Major NSR Summary Table

Permit Number: 8579, PSDTX371M5					Issuance Date: 12/20/2013		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr (5)	TPY (5)(6)			
ACT-2	Auxiliary Cooling Tower No. 2	PM ₁₀	0.29	0.95	--	--	--
AC-1	Indoor Abrasive Cleaning and Painting Facility Baghouse Stack	PM ₁₀	2.57	2.67	6**, 10, 12	12, 13, 14	12
		VOC	5.42	0.79	--	--	--
AC-2	Outdoor Abrasive Cleaning and Painting Facility (4)	PM	1.43	0.57	--	--	--
		PM ₁₀	0.17	0.07	--	--	--
AC-2A	Outdoor Spray Painting Facility (4)	PM	7.04	1.23	--	--	--
		PM ₁₀	3.52	0.62	--	--	--
		VOC	5.42	0.79	--	--	--
BATL-1	Bottom Ash Truck Loading (4)	PM	0.94	2.54	5**	13	--
		PM ₁₀	0.47	1.27	5**	13	--
RCUL01	Temporary Railcar Unloader Baghouse Stack	PM ₁₀	0.55	0.51	5**	13	--
SiloU1	PAC Silo U1	PM	0.105	0.46	6**	6, 13	--
		PM ₁₀	0.105	0.46	6**	6, 13	--
		PM _{2.5}	0.105	0.46	6**	6, 13	--
SiloU2	PAC Silo U2	PM	0.105	0.46	6**	6, 13	--
		PM ₁₀	0.105	0.46	6**	6, 13	--
		PM _{2.5}	0.105	0.46	6**	6, 13	--
MSSFUG	Miscellaneous Site-wide Maintenance Activities	VOC	156.36	4.89	--	20, 21	--
		PM	3.33	4.95	--	20, 21	--
		PM ₁₀	3.10	2.73	--	20, 21	--
		PM _{2.5}	2.92	1.04	--	20, 21	--
		NO _x	0.38	0.16	--	20, 21	--
		CO	0.36	0.05	--	20, 21	--
		SO ₂	0.02	0.01	--	20, 21	--
		NH ₃	7.72	0.01	--	20, 21	--

Notes:

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - NO_x - oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - NH₃ - ammonia
- (4) Fugitive emissions are an estimate only.
- (5) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (6) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Maximum fuel throughput: Lignite 3,600 tons/hour and 14,000,000 tons/year

Western coal: 3,600 tons/hour and 9,000,000 tons/year

Petcoke: 3,600 tons/hour and 2,000,000 tons/year

** Opacity is used as an indicator of PM emissions, but the opacity limits in the permit are not directly correlated to the PM limit in the MAERT; therefore, non-compliance with the opacity limit does not constitute non-compliance with the PM limit.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR QUALITY PERMIT



A Permit Is Hereby Issued To
NRG Texas Power LLC
Authorizing the Construction and Operation of
Limestone Electric Generating Station - Boilers 1 and 2
Located at **Jewett, Limestone County, Texas**

Latitude 31° 24' 39" Longitude 96° 15' 42"

Permits: 8576 and PSDTX371M5

Amendment Date : December 20, 2013

Renewal Date: August 31, 2017


For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC 116.115(b)(2)(B)(iii)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

Special Conditions

Permit Numbers 8576 and PSDTX371M5

Emission Standards

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that table. This permit authorizes routine maintenance, startup, and shutdown (MSS) activities which comply with the emission limits in the MAERT. Maximum hourly emission rates are based on the highest emissions resulting from firing each boiler unit at 9,061 million British thermal units per hour (MMBtu/hr) with lignite only, coal only, a blend of lignite and coal, a blend of up to 20 percent petroleum (pet) coke (by weight) with coal, and a blend of up to 20 percent pet coke (by weight) with lignite. Annual emission rate limits are based on 8,760 hours per year sustained full-load operation and 12-month rolling periods. **(10/12)**
2. Affected facilities shall comply with the applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations as follows: **(12/13)**
 - A. Standards of Performance for New Stationary Sources (NSPS) promulgated in Title 40 Code of Federal Regulations (40 CFR) Part 60:
 - (1) Subpart A - General Provisions, and
 - (2) Subpart Da - Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978.
 - B. National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Source Categories promulgated in 40 CFR Part 63:
 - (1) Subpart A - General Provisions, and
 - (2) Subpart UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units.
 - C. If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit condition shall govern and be the standard by which compliance shall be demonstrated.
3. Particulate matter (PM) emissions from each boiler shall be controlled by a cold side electrostatic precipitator (ESP) and shall not exceed 0.03 pound (lb) per MMBtu of fired fuel, except during periods of routine MSS. During periods of MSS, particulate matter shall be controlled in accordance with Special Condition No. 19. **(10/12)**
4. Sulfur dioxide (SO₂) emissions from each boiler and vented through the ESP shall be controlled by a wet limestone flue gas desulfurization (FGD) system. The permit holder represents that the scrubbed flue gas is discharged through a mist eliminator that is composed of two stages, including the bulk entrainment separator (BES) and the fine entrainment separator. Both of these stages extend across the face area of the absorber spray tower, and two rows of vanes are used to assure droplet impingement and to minimize mist carryover. Any subsequent design changes to this system should not result in a significant decrease in scrubber performance and shall be documented on site and reported to the Texas Commission on Environmental Quality (TCEQ) Regional Office.

Copies of revised system design characteristics and descriptions shall be provided to the TCEQ Regional Office upon request. Liquid carryover past the demister is specified in FGD performance guarantees not to exceed 3.4 gallons per minute (gpm). **(12/13)**

Opacity/Visible Emission Limitations

5. Opacity of emissions from the utility boiler stacks shall be monitored in accordance with 40 CFR Part 60, Subpart Da and shall not exceed 15 percent when adjusted for uncombined water vapor averaged over a six-minute period, except during periods of routine MSS or as otherwise allowed by law. During periods of MSS, the opacity shall be controlled in accordance with Special Condition No. 19. **(12/13)**

Operational Limitations, Work Practices, and Plant Design

6. Chemical cleaning of Boiler Unit Nos. 1 and 2 generates spent cleaning solution and rinse water which is injected into Boiler Unit No. 1 windbox for incineration and shall not exceed a maximum rate of 150 gpm and 2.4 million gallons per year.
7. As represented by the applicant, the BES shall be inspected annually on each demister assembly and recorded. The vanes/chevrons shall be inspected for pluggage and damage. The vanes/chevrons shall be cleaned and deposits removed as necessary. Damaged vanes/chevrons shall be repaired and/or replaced as appropriate. In addition, the mist eliminators are equipped with an automatic on-line maintenance system to help maintain cleanliness and minimize pluggage. This system includes a series of water lances that are operated on an automatic cycle while the generating units are in operation.

Determination of Compliance and Continued Compliance

8. Sampling ports and platforms shall be incorporated into the design of all exhaust stacks according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director. **(12/13)**
9. The permit holder shall perform stack sampling and other testing to establish the actual quantities of air contaminants being emitted into the atmosphere from the boiler stacks (emission point numbers [EPNs] LMS1 and LMS2). Unless otherwise specified in this Special Condition No. 9, the sampling and testing shall be conducted in accordance with the methods and procedures specified in Special Condition No. 10. The permit holder is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. The TCEQ Executive Director or his designated representative shall be afforded the opportunity to observe all such sampling. **(12/13)**
 - A. Air contaminants and diluent from the boiler stacks to be sampled and analyzed include (but are not limited to) the following:

- (1) volatile organic compounds (VOC) - after completion of the deep combustion tuning for the boilers, as specified in paragraph D(1) of this special condition;
 - (2) PM (filterable and condensable), PM with diameters of 10 microns or less (PM₁₀), and PM with diameters of 2.5 microns or less (PM_{2.5}) - by the deadline specified in paragraph D(2) this special condition;
 - B. Requests to waive testing for any air contaminant specified in this condition shall be submitted to the TCEQ Air Permits Division. Test waivers and alternate or equivalent procedure proposals for NSPS testing which must have EPA approval shall be submitted to the EPA and copied to TCEQ Regional Director.
 - C. The boilers shall be tested at the maximum rates for the atmospheric conditions which exist during testing, and applicable controls shall be in operation during the testing.
 - D. Sampling as required by this condition shall occur as follows:
 - (1) Sampling of each boiler for the air contaminants and diluents listed in paragraph A(1) of this special condition shall be performed within 180 days after completion of the deep combustion tuning.
 - (2) Sampling of each boiler for the air contaminants listed in paragraph A(2) of this special condition shall be performed no later than the deadline for the initial performance testing of the boiler as specified in 40 CFR Part 63, Subpart UUUUU.
 - (3) Additional sampling shall be performed as may be required by the TCEQ or EPA.
10. Sampling Methods and Procedures. **(12/13)**
- A. Sampling shall be conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and EPA Test Methods in 40 CFR Part 60, Appendix A.
 - B. The TCEQ Waco Regional Office shall be given notice as soon as testing is scheduled but not less than 30 days prior to sampling to schedule a pretest meeting.
 - (1) The notice shall include:
 - (a) Date for pretest meeting.
 - (b) Date sampling will occur.
 - (c) Name of firm conducting sampling.
 - (d) Type of sampling equipment to be used.
 - (e) Method of procedure to be used in sampling.
 - (2) The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

- (3) Prior to the pretest meeting, a written proposed description of any deviation from sampling procedures specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ. The TCEQ Regional Director shall approve or disapprove of any deviation from specified sampling procedures.
 - C. Two copies of the final sampling report shall be submitted within 60 days after the sampling is completed. Sampling reports shall comply with the attached conditions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
 - (1) One copy to the EPA Region 6 Office, Dallas.
 - (2) One copy to the TCEQ Waco Regional Office.
- 11. The permit holder shall develop a report that describes the deep combustion tuning changes made to the boilers and the resulting effects on emissions of NO_x and CO. The report shall be submitted to the TCEQ Air Permits Division - Combustion/Coatings NSR Section (MC-163) and the TCEQ Waco Regional Office no later than the deadline for the final sampling report in paragraph 10C above. **(12/13)**
- 12. The permit holder shall install and shall operate continuous opacity, SO₂, NO_x, and CO₂ monitors in EPNs LMS1 and LMS2 as listed in the attached MAERT and in accordance with 40 CFR § 60.49Da. The CO₂ instrument shall continuously record the flue gas CO₂ concentrations, in parts per million by volume, as best available control technology for boiler lowest excess air operation. The permit holder shall report the opacity, SO₂, and NO_x monitoring data in the manner described in 40 CFR § 60.51Da.

However, the SO₂ monitoring data shall consist of 3-hour rolling averages considering each hour and the 2 preceding hours plus the SO₂ monitoring data shall consist of 24 rolling hour averages considering each hour and the preceding 23 hours. The permit holder shall report CO₂ monitoring which coincides with periods of excess NO_x emissions and during periods when the continuous nitrogen monitor is not in operation.

In addition, the permit holder shall install and operate a monitor accurate to ± 10 percent to continuously measure and record CO concentrations in EPNs LMS1 and LMS2. All continuous monitoring readings in excess of CO emission limitations referred to in the attached MAERT shall be reported in accordance with 40 CFR § 60.7(c) and (d).
- 13. Allowable emissions of NO_x are enforceable on a 30-day rolling average according to the standards, methods, procedures, and requirements of 40 CFR § 60.44Da(a). Allowable emissions of SO₂ are enforceable on a 3-hour and 24-hour rolling average.
- 14. The permit holder shall continuously monitor the SO₂ removal efficiency of the flue gas desulfurization system in accordance with the test methods and procedures as set out in 40 CFR § 60, Appendix A, Method 19, Determination of SO₂ Removal Efficiency and PM, SO₂, and NO_x emission rates from electric utility steam generators to determine the overall reduction of uncontrolled SO₂ from EPNs LMS1 and LMS2. The monitoring data

indicating overall SO₂ removal less than that required as calculated from the attached “Maximum Allowable SO₂ Steam Generating Units” shall be reported in accordance with 40 CFR § 60.51Da and Special Condition No. 13.

The continuous monitoring data may, at the discretion of the TCEQ Regional Director be used to determine violations of the conditions in this permit. All continuous monitoring readings in excess of the emission limitations set forth in the attached MAERT shall be reported in accordance with 40 CFR § 60.51Da and Special Condition Nos. 11 and 13.

15. The permit holder shall monitor PM emissions from EPNs LMS1 and LMS2 or perform stack testing in accordance with the applicable requirements of 40 CFR Part 63, Subpart UUUU to demonstrate compliance with Special Condition No. 3 and the MAERT. **(12/13)**

Recordkeeping

16. The following records, written or electronic, shall be maintained at the plant and shall be made available upon request by representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction. **(12/13)**
 - A. A copy of this permit.
 - B. Permit application dated February 1, 2013 and supplemental application information submitted.
 - C. A complete copy of the testing reports and records of the performance testing completed pursuant to Special Condition Nos. 9-10 to demonstrate initial compliance.
 - D. Stack sampling results for the most recent stack test (other than CEMS data) conducted on units authorized under this permit.
17. The following records, written or electronic, shall be maintained at the plant site on a five-year rolling basis and made readily available upon request by representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction. **(12/13)**
 - A. Records to show compliance with relevant requirements of applicable federal NSPS and NESHAPS standards as required by Special Condition No. 2.
 - B. Records of PM monitoring data or stack testing data pursuant to Special Condition No. 15 to demonstrate compliance with Special Condition No. 3 and the MAERT.
 - C. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems.
 - D. Records of SO₂, NO_x, CO, and diluent CEMS emissions data to demonstrate compliance with the emission rates listed in the MAERT.
 - E. Records of continuous opacity monitoring system data.

- F. Records of all information resulting from monitoring activities and information indicating operating parameters as required in the special conditions of this permit.

Routine Maintenance, Startup, and Shutdown

18. This permit authorizes the emissions from the planned MSS activities listed in Attachment A, Attachment B, or the MAERT attached to this permit. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the planned MSS activities that are non-ILE planned maintenance activities that this permit authorizes to be performed. **(10/12)**
19. Opacity greater than 15 percent from either EPN LMS1 or LMS2 is authorized when the permit holder complies with the MSS duration limitations and other applicable work practices identified below. **(10/12)**
- A. Emissions during planned startup and shutdown activities shall be minimized by limiting the duration of operation in planned startup and shutdown mode as follows:
- (1) A planned startup of the EGF with EPN LMS1 or LMS2 is defined as the period that begins when the forced draft fans start operation and ends when the utility boiler reaches the lowest sustainable load (LSL) and maintains that load (or greater load) for 60 consecutive minutes and ESP operations have been fully optimized.
- (a) A planned startup of the EGF shall not exceed 2,880 minutes, except as allowed in Special Condition No. 19A(1)(b).
- (b) An extended planned startup is defined as a startup that lasts more than 48 hours. The total amount of incremental time the extended startups exceed 48 hours shall not exceed 600 hours per unit on an annual calendar year basis.
- (2) A planned shutdown of the EGF with EPN LMS1 or LMS2 is defined as the period that begins when load drops below LSL following dispatch request for a shutdown and ends when the drum metal temperature reaches 200 degrees F.
- (a) A planned shutdown of the EGF shall not exceed 2,880 minutes, except as allowed in Special Condition No. 19A(2)(b).
- (b) An extended planned shutdown is defined as a shutdown that lasts more than 48 hours. The total amount of incremental time the extended shutdowns exceed 48 hours shall not exceed 600 per unit hours on an annual calendar year basis.
- B. Emissions during planned startup and shutdown activities shall be minimized by employing the following work practices. The EGF with EPN LMS1 or LMS2 will comply with the boiler and ESP manufacturer's operating procedures or the permit holder's written Standard Operating Procedures manual during planned MSS, and will operate in a manner consistent with those procedures to minimize opacity by placing the ESP into service as soon as practical during planned startups or removing

the ESP from service as late as possible during planned shutdowns, once the air heater outlet temperature is between 200 and 300 degrees F, but not longer than the durations identified in Special Condition No. 19A. The manufacturer's operating procedures or written Standard Operating Procedure manual shall be located on-site and available to the TCEQ regional investigator.

- C. Periods of opacity greater than 15 percent from EPN LMS1 or LMS2 from planned online and offline maintenance activities identified in Attachment A or B is authorized for no more than 535 hours in a calendar year.
 - D. The permit holder shall keep records to identify periods of planned MSS, the opacity measured by the COMS for the duration of the planned MSS activities, and the work practices in Special Condition No. 19B are followed during the planned MSS activities for the purpose of demonstrating compliance with this permit special condition.
 - E. For periods of maintenance, startup, and shutdown other than those subject to Paragraphs A - C of this condition, 30 TAC § 111.111, 111.153, and Chapter 101, Subchapter F apply.
20. When a planned maintenance activity identified in Attachment B is associated with a VOC liquid storage facility and may result in VOC emissions from that facility, the permit holder shall not open that facility to the atmosphere in connection with the planned maintenance activity until the VOC liquids are removed from that facility to the maximum extent practicable. **(10/12)**
21. No vacuum pump on a vacuum truck that is used to move solids (such as ash) during planned maintenance activities shall be operated unless the vacuum system exhaust is routed to a filtering system. **(10/12)**
22. Vacuum trucks that are used to move liquids with a vapor pressure greater than 0.5 psia during planned maintenance activities shall utilize submerged loading. **(10/12)**
23. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit may be demonstrated as follows. **(10/12)**
- A. For each pollutant emitted during ILE planned maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all ILE planned maintenance activities (See Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
 - B. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions are measured using a CEMS, as per Special Condition No. 24A, the permit holder shall compare the pollutant's short-term (hourly) emissions during planned MSS activities as measured by the CEMS to the applicable short-term planned MSS emissions limit in the MAERT.

- C. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions occur through a stack, but are not measured using CEMS as per Special Condition No. 24A, the permit holder shall determine the total emissions of the pollutant through the stack that result from such non-ILE planned MSS activities in accordance with Special Condition No. 24B.
 - D. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions do not occur through a stack, the permit holder shall do the following for each calendar month.
 - (1) Determine the total emissions of the pollutant from such non-ILE planned MSS activities in accordance with Special Condition No. 24B.
 - (2) Once monthly emissions have been determined in accordance with Special Condition No. 23D(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the sum of the rolling 12-month emissions for the pollutant for all non-ILE planned MSS activities and the annual potential to emit for the pollutant from all ILE planned MSS activities (as referenced in Special Condition 23A), to the annual emissions limit for the pollutant in the MAERT.
24. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 23 as follows. **(10/12)**
- A. For each pollutant whose emissions during normal facility operations are measured with a CEMS that has been certified to measure the pollutant's emissions over the entire range of a planned MSS activity, the permit holder shall measure the emissions of the pollutant during the planned MSS activity using the CEMS.
 - B. For each pollutant not described in Special Condition No. 24A, the permit holder shall calculate the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods described in paragraphs 1 through 4 below, provided that the permit holder maintains appropriate records supporting such determination:
 - (1) Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.
 - (2) Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.

- (3) Use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
 - (4) Use of parametric monitoring system (PEMS) data applicable to the facility.
25. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 180 days after issuance of the permit amendment that added such conditions. **(10/12)**

Permits by Rule

26. The following maintenance activities at the site are currently authorized by permits by rule (PBR) under 30 TAC Chapter 106 or PBR predecessor standard exemptions (SE) to 30 TAC Chapter 116. This list is not intended to be all inclusive and can be altered at the site without modification to this permit. **(10/12)**

Description	SE/PBR No.
Comfort Heating System Maintenance and Repair	SE 003, PBR 106.102
Bench Scale Laboratory Equipment	SE 034, PBR 106.122
Brazing, Soldering, and Welding	SE 039, PBR 106.227
Enclosed and Outdoor Dry Abrasive Blasting	PBR 106.263
Miscellaneous Surface Coating	PBR 106.263
Hand-Held Equipment for Buffing, Polishing, Cutting, Drilling, Sawing, Grinding, Turning, or Machining Wood, Metal or Plastic	SE 040, PBR 106.265
Refrigeration System Maintenance and Repair	SE 103, PBR 106.373
Solvent Cleaning-Parts Degreaser	SE 107, PBR 106.454
Portable Engines	SE 005, PBR 106.511
Water and Wastewater treatment	SE 061, PBR 106.532

Date: December 20, 2013

Attachment A

Permit Numbers 8576 and PSDTX371M5

Inherently Low Emitting (ILE) Planned Maintenance Activities

Table 1: ILE Planned Maintenance Activities and Associated Pollutants

Planned Maintenance Activity	NH ₃ / Urea	VOC	NO _x	CO	PM	SO ₂
Water-based washing		X				
Boiler general maintenance ¹					X	
Inspection, repair, replacement, adjusting, testing, and calibration of analytical equipment, process instruments including sight glasses, meters, gauges, CEMS, PEMS.		X	X	X		X
Deslagging of boiler ²	X	X	X	X	X	
Gaseous fuel venting (pipe length <100 feet)		X				
Small equipment and fugitive component repair/replacement in VOC and inorganic service ³	X	X				

Date: December 20, 2013

¹ Includes pre-heater basket handling and maintenance, refractory change-out, fan maintenance and balancing, damper, air heater, and soot blower maintenance, and any other general boiler maintenance that does not exceed the worst-case emissions representation in the application.

² Includes, but is not limited to, explosive blasting, clinker shooting, and other boiler deslagging activities; does not include dry abrasive blasting that may occur in boilers.

³ Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service, (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service, and (iii) off-line NO_x control device maintenance (including maintenance of the anhydrous ammonia systems and aqueous ammonia systems associated with SCR systems and SNCR systems).

Attachment B

Permit Numbers 8576 and PSDTX371M5

Non-Inherently Low Emitting Planned MSS Activities

Table 2: Non-ILE Planned Maintenance Activities and Associated Pollutants

Planned Maintenance Activity	EPN ¹	NH ₃ / Urea	VOC	NO _x	CO	PM	SO ₂
Combustion optimization and maintenance reliability testing ²	LMS1, LMS2		X	X	X	X	X
PM control device maintenance - unit online	LMS1, LMS2					X	
SO2 control device maintenance - unit online	LMS1, LMS2						X
Use of fans during maintenance - unit offline	LMS1, LMS2					X	
Main unit Planned Startup and Planned Shutdown	LMS1, LMS2		X	X	X	X	X

Date: December 20, 2013

¹ Planned maintenance activity emissions not vented through EPN LMS1 or LMS2 are quantified as EPN MSSFUG in the maximum allowable emissions rate table in Permit Nos. 8579 and PSDTX371M5. EPN MSSFUG quantifies permitted planned site-wide MSS emissions at the Limestone Electric Generating Station for activities identified in Attachment A above, and activities listed in Attachment A and B in Permit Nos. 8579 and PSDTX371M5. **(12/13)**

² Includes, but is not limited to, (i) leak and operability checks (e.g., turbine over-speed tests, troubleshooting), (ii) balancing, and (iii) tuning activities that occur during seasonal tuning or after the completion of initial construction, a combustor change-out, a major repair, maintenance to a combustor, or other similar circumstances.

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 8576 and PSDTX371M5

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lb/hour (5)	TPY (6)
LMS1	Boiler Unit 1 Scrubber Stack	NO _x	2,265	9,425
		SO ₂ (3-hour rolling average)	9,000	28,378
		SO ₂ (24-hour rolling average)	6,479	--
		PM	272	1,191
		PM ₁₀	245	1,072
		PM _{2.5}	208	913
		PM (7)	7,616	--
		PM ₁₀ (7)	5,103	--
		PM _{2.5} (7)	2,209	--
		CO (1-hour average)	5,980	3,823
		CO (24-hour rolling average)	2,990	--
		VOC	52.7	231
		VOC (7)	52.8	--
		H ₂ SO ₄	245	1,071
		Pb	0.26	0.46
		As	0.17	0.39
		Be	0.07	0.05
		Cd	0.06	0.12
		Cr	0.49	0.78
		HCl	122.1	274.9
		HF	81.4	87.4
		Mn	1.23	1.28
		Hg (8)	0.4	0.74
		Ni	0.49	1.59
		Se	10.79	5.7
		V	2.1	6.9

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lb/hour (5)	TPY (6)
LMS2	Boiler Unit 2 Scrubber Stack	NO _x	2,265	9,425
		SO ₂ (3-hour rolling average)	9,000	28,378
		SO ₂ (24-hour rolling average)	6,479	--
		PM	272	1,191
		PM ₁₀	245	1,072
		PM _{2.5}	208	913
		PM (7)	7,616	--
		PM ₁₀ (7)	5,103	--
		PM _{2.5} (7)	2,209	--
		CO (1-hour average)	5,980	3,823
		CO (24-hour rolling average)	2,990	--
		VOC	52.7	231
		VOC (7)	52.8	--
		H ₂ SO ₄	245	1,071
		Pb	0.26	0.46
		As	0.17	0.39
		Be	0.07	0.05
		Cd	0.06	0.12
		Cr	0.49	0.78
		HCl	122.1	274.9
		HF	81.4	87.4
		Mn	1.23	1.28
		Hg (8)	0.4	0.74
		Ni	0.49	1.59
		Se	10.79	5.7
		V	2.1	6.9

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H₂SO₄ - sulfuric acid mist
- Pb - lead
- As - arsenic
- Be - beryllium
- Cd - cadmium
- Cr - chromium
- HCl - hydrogen chloride
- HF - hydrogen fluoride
- Mn - manganese
- Hg - mercury
- Ni - nickel
- Se - selenium
- V - vanadium
- (4) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (5) For each pollutant whose emissions during planned MSS activities are measured using a CEMS, the MSS lb/hr limits apply only during each clock hour that includes one or more minutes of MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (6) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (7) MSS hourly emission limit only. The tpy emission limit specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities.
- (8) The annual Hg limit of 0.74 tpy remains in effect for 12 months following the compliance date specified in 40 CFR Part 63, Subpart UUUUU. After such time, EPNs LMS1 and LMS2 shall comply with an annual Hg limit of 0.16 tpy. **(12/13)**

Date: December 20, 2013



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR QUALITY PERMIT



A Permit Is Hereby Issued To
NRG Texas Power LLC

Authorizing the Construction and Operation of
Limestone Electric Generating Station - Material Handling
Located at Jewett, Limestone County, Texas

Latitude 31° 24' 39" Longitude 96° 15' 42"

Permits: 8579 and PSDTX371M5

Amendment Date : December 20, 2013

Renewal Date: May 2, 2017


For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC 116.115(b)(2)(B)(iii)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

Special Conditions

Permit Numbers 8579 and PSDTX371M5

Emission Standards

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that table. This permit authorizes routine maintenance, startup, and shutdown (MSS) activities which comply with the emission limits in the MAERT. Compliance with these permitted emission limits is based on throughput limits as listed in Special Condition No. 9 below and includes handling pet coke from active storage pile to the boilers via existing enclosed conveyors. The annual rates are based on any consecutive 12-month period. **(12/13)**
2. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations (40 CFR) Part 60, Subpart A and Subpart Y on Coal Preparation Plants.

If any condition of this permit is more stringent than the regulations so incorporated, then for the purposes of complying with this permit, the permit condition shall govern and be the standard by which compliance shall be demonstrated.

3. Baghouses, properly installed and in good working order, shall control particulate matter (PM) emissions from the following emission point numbers (EPNs): **(12/13)**

EPN	Source Name
LAS-1A	Fuel Handling Lime Addition Silo A
LAS-1B	Fuel Handling Lime Addition Silo B
LM-1	Limestone Handling Unloader and Hopper Vault
LM-2	Limestone Handling Shuttle Conveyor
LM-3	Limestone Handling Reclaim
LM-4	Limestone Handling Transfer Tower
LM-5	Limestone Handling Feed Silos
WH-1A	Waste Handling Fly Ash Silo No. 1
WH-1B	Waste Handling Fly Ash Silo No. 2
WH-2A	Waste Handling Fly Ash Storage Silo A
WH-2B	Waste Handling Fly Ash Storage Silo B
WH-2C	Waste Handling Fly Ash Storage Silo C
AC-1	Indoor Abrasive Cleaning and Painting Facility
FH-8A	Fuel Handling Silo Gallery A Unit No. 1
FH-8B	Fuel Handling Silo Gallery B Unit No. 1
FH-8C	Fuel Handling Silo Gallery C Unit No. 2

FH 8D	Fuel Handling Silo Gallery D Unit No. 2
SiloU1	PAC Silo U1
SiloU2	PAC Silo U2

- A. The baghouses or bin vent filters for the EPNs listed in the table above shall achieve a minimum of 0.01 grain per dry standard cubic foot (gr/dscf) of the discharge gas (air), except as specified in paragraph B below. **(12/13)**
- B. The baghouses associated with the following EPNs: FH-8A, FH-8B, FH-8C, and FH-8D will not be in continuous use. Emissions from these areas are primarily controlled by waterspray and building enclosure. The baghouses are used to control dust inside the enclosure and facilitate housekeeping.
4. Venturi wet scrubbers properly installed, in good working order, and venting through cyclone separators shall control PM emissions from the following EPNs:

EPN	Source Name
WH-4A	Waste Handling Pugmill A
WH-4B	Waste Handling Pugmill B
WH-4C	Waste Handling Pugmill C

The applicant has represented the above wet venturi scrubber EPNs will not exceed 0.01 gr/dscf of the discharge gas (air).

Opacity/Visible Emission Limitations

5. No visible fugitive emissions from the transfer points on belt conveyors, any material handling, or the stockpile activities shall leave the property. Visible emissions shall be determined by EPA Test Method (TM) 22 or equivalent. If this condition is violated, additional controls or process changes may be required to limit visible PM emissions. Stack emissions may leave the plant property provided Special Condition No. 6 is not violated.
6. Opacity requirements from stacks:
- A. According to EPA TM 9 or equivalent, opacity of emissions from the fabric filter baghouses and wet venturi scrubber stacks should not exceed five percent (when adjusted for uncombined water vapor) averaged over a six-minute period, except during periods of routine maintenance, startup, or shutdown (MSS) or as otherwise allowed by law. During periods of MSS, the opacity shall not exceed 20 percent over a six-minute period. **(10/12)**

If 5 percent opacity is exceeded, Special Condition No. 10 applies. This 5 percent opacity may be altered for individual baghouses at the request of the permittee

provided stack test results verify the represented 0.01 gr/dscf or less gas discharge and at the same time verify the corresponding requested opacity.

- B. The opacity shall not exceed five percent averaged over a six-minute period from the bin vent filter stacks (EPNs SiloU1 and SiloU2). Each determination shall be made by first observing for visible emissions while each facility is in operation. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point. If visible emissions are observed from an emission point, then the opacity shall be determined and documented within 24 hours of observing the visible emissions for that emission point using 40 CFR Part 60, Appendix A, Test Method 9. Contributions from uncombined water shall not be included in determining compliance with this condition. Observations shall be performed and recorded quarterly. If the opacity exceeds five percent averaged over a six-minute period, corrective action to eliminate the source of visible emissions shall be taken promptly and documented within one week of first observation. **(12/13)**

Emission Standards and Operating Practices - Lignite Handling System

7. The applicant has represented other controls as follows:

EPN	Source	Control
FH-1A	Fuel Handling Lignite Mine Transfer Silo	Waterspray and building enclosure
FH-1C	Fuel Handling Transfer Tower No. 4	Waterspray and building enclosure
FH-2	Fuel Handling Transfer Tower No. 1Y	Waterspray and building enclosure
FH-3A	Fuel Handling Active Storage Pile A Reclaim	Waterspray and building enclosure
FH-3B	Fuel Handling Active Storage Pile B Reclaim	Waterspray and building enclosure
FH-4	Fuel Handling Crusher House	Waterspray and building enclosure
FH-5	Fuel Handling Transfer Tower No. 2	Waterspray and building enclosure
FH-6	Fuel Handling Transfer Tower No. 3	Waterspray and building enclosure
FH-7	Fuel Handling Outboard Tower No. 1	Waterspray and building enclosure
FH-8A	Fuel Handling Silo Gallery A Unit No. 1	Waterspray and building enclosure
FH-8B	Fuel Handling Silo Gallery B Unit No. 1	Waterspray and building enclosure
FH-8C	Fuel Handling Silo Gallery C Unit No. 2	Waterspray and building enclosure
FH-8D	Fuel Handling Silo Gallery D Unit No. 2	Waterspray and building enclosure

FH-1B	Fuel Handling Overland Conveyor	Partial enclosure
FH-9A	Fuel Handling Active Storage Pile A	Waterspray and underground reclaim
FH-9B	Fuel Handling Active Storage Pile B	Waterspray and underground reclaim
FH-10	Fuel Handling Inactive Storage Pile	Watering (bulldozer activity)
FH-11	Fuel Handling Emergency Storage Pile	Maximum 12-foot drop from telescoping chute plus watering
FH-13	Fuel Handling Railcar Unloader Conveyor C-31	Partially enclosed structure
FH-14	Fuel Handling Railcar Unloader	Waterspray and building enclosure
LM-1A	Limestone Handling Railcar Unloading Facility	Waterspray
LM-6	Limestone Handling Storage Pile	Partial enclosure, telescoping chute (maximum 15-18 feet and average 7-10 feet), and underground reclaim
WH-1C	Waste Handling Fly Ash Truck Loading	Telescopic chute and vacuum recovery
WH-1D	Waste Handling Fly Ash Bag Operation	Vacuum recovery back to silo
WH-1E	Waste Handling Fly Ash Truck Loading	Retractable loading spout with vacuum recovery back to silo (5/07)
WH-1F	Waste Handling Truck to Railcar Loading	Retractable loading spout with vacuum recovery back to silo (5/07)
WH-5A	Waste Handling Stabilized Sludge Conv. A	Wet material
WH-5B	Waste Handling Stabilized Sludge Conv. B	Wet material
WH-5C	Waste Handling Stabilized Sludge Conv. C	Wet material
WH-6A	Waste Handling Stabilized Sludge Conveyor Stackout A	Wet material
WH-6B	Waste Handling Stabilized Sludge Conveyor Stackout B	Wet material
WH-6C	Waste Handling Stabilized Sludge Conveyor Stackout C	Wet material
LF-1	Waste Handling Landfill	Waterspray
FE	Plant Roads	Waterspray
MCT-1	Unit 1 Main Cooling Tower	Drift eliminators
MCT-2	Unit 2 Main Cooling Tower	Drift eliminators

ACT-1	Auxiliary Cooling Tower No. 1	Drift eliminators
ACT-2	Auxiliary Cooling Tower No. 2	Drift eliminators
AC-2	Outdoor Abrasive Cleaning and Painting	Black beauty abrasive
AC-2A	Outdoor Spray Painting Facility	None
BATL-1	Bottom Ash Truck Loading	Wet material

The represented enclosures and partial enclosures shall be maintained with no holes or nondesign openings. The water spray and wet material shall be maintained to eliminate any off property visible emissions. There shall be no visible emissions during vacuum recovery systems operation. There may be visible fugitive emissions from the start-up and shutdown of the fly ash truck loading and fly ash bag loading operations as represented in EPNs WH-1C and WH-1D.

Operational Limitations, Work Practices, and Plant Design

8. A visible and/or audible warning device shall be installed on each plant fly ash silo (Fly Ash Silos, EPNs WH-1A, WH-1B, and WH-2A-C) to warn operators that the silo is full so that it will not be overloaded at any time. A visible and/or audible warning device shall be installed in conjunction with scales at the loading facility to warn operators during loading operations that the truck trailer is full so that it will not be overloaded at any time.
9. Fuel throughput is limited as follows: no more than 3,600 tons/hour of lignite, western coal, or pet coke and no more than 14,000,000 tons/year of lignite; no more than 9,000,000 tons/year of western coal; and no more than 2,000,000 tons/year of pet coke. Annual limits apply in any rolling 12-month period. **(5/07)**

Determination of Compliance

10. Upon being informed by the Texas Commission on Environmental Quality (TCEQ) Executive Director that the staff has documented visible emissions from specific baghouses and/or wet scrubbers exceeding 5 percent opacity, when adjusted for uncombined water vapor, averaged over six consecutive minutes, except during periods of routine MSS or as otherwise allowed by law as referenced in Special Condition No. 6, the holder of this permit may be required to conduct stack sampling analyses or other tests to prove satisfactory equipment performance and demonstrate compliance with the 0.01 gr/dscf allowable for the specific baghouses and/or wet scrubbers. Sampling must be conducted in accordance with appropriate procedures of the TCEQ Sampling Procedures Manual or in accordance with the applicable EPA CFR procedures. **(10/12)**
11. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense. Sampling ports and platforms shall be installed on the exhaust stack according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" prior to stack sampling.

Alternate sampling facility designs may be submitted for approval by the Executive Director of the TCEQ.

12. A pretest meeting concerning the required monitoring shall be held with personnel from the TCEQ before the required tests are performed. Air contaminants to be tested for and the test methods to be used shall be determined at this pretest meeting.
 - A. Sampling shall occur within 60 days of Special Condition No. 10 stipulations.
 - B. The TCEQ Waco Regional Office shall be notified not less than 30 days prior to sampling to schedule a pretest meeting. The notice to the TCEQ Waco Regional Office shall include:
 - (1) Date for pretest meeting.
 - (2) Date sampling shall occur.
 - (3) Name of firm conducting sampling.
 - (4) Type of sampling equipment to be used.
 - (5) Method or procedure to be used in sampling.The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test results.
 - C. A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Waco Regional Office shall approve or disapprove of any deviation from specified sampling procedures.
 - D. The specific noncompliant EPN source(s) shall operate at maximum throughput rates during stack emissions testing. If the specific noncompliant EPN source is unable to operate at maximum rates during testing, then future throughput rates shall be limited to the rates established during testing (+ 10 percent). Additional stack testing shall be required when higher throughput rates are achieved.
 - E. The sampling report shall include the throughput rate during tests.
 - F. Copies of the final sampling report shall be submitted within 30 days after sampling is completed. Sampling reports shall comply with the provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
 - (1) One copy to the TCEQ Waco Regional Office.
 - (2) One copy to the TCEQ Austin Air Permits Division.

Reporting and Recordkeeping Requirements

13. The following information shall be maintained at the plant site by the holder of this permit in a form suitable for inspection for a period of five years after collection and shall be made

available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction: **(12/13)**

- A. Records to show compliance with the throughput limitations specified in Special Condition No. 9.
 - B. Records of the manufacturer's performance specifications of the bin vent filters to show compliance with Special Condition No. 3A. **(12/13)**
 - C. Records of visible emissions/opacity observations and any corrective actions taken pursuant to Special Condition No. 6. **(12/13)**
14. The holder of this permit shall retain a summary of the testing results required in Special Condition No. 10 on-site and will make the summary immediately available upon request by representatives of the TCEQ or local air pollution control program.
15. The painting and abrasive cleaning areas were authorized under standard exemption and are rolled into this permit.

Routine Maintenance, Startup, and Shutdown

16. This permit authorizes the emissions from the planned maintenance, startup, and shutdown (MSS) activities listed in Attachment A, Attachment B, or the MAERT attached to this permit. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that this permit authorizes to be performed. Attachment B identifies the planned MSS activities that are non-ILE planned maintenance activities that this permit authorizes to be performed. **(10/12)**
17. When a planned maintenance activity identified in Attachment B is associated with a VOC liquid storage facility and may result in VOC emissions from that facility, the permit holder shall not open that facility to the atmosphere in connection with the planned maintenance activity until the VOC liquids are removed from that facility to the maximum extent practicable. **(10/12)**
18. No vacuum pump on a vacuum truck that is used to move solids (such as ash) during planned maintenance activities shall be operated unless the vacuum system exhaust is routed to a filtering system. **(10/12)**
19. Vacuum trucks that are used to move liquids with a vapor pressure greater than 0.5 psia during planned maintenance activities shall utilize submerged loading. **(10/12)**
20. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices as represented in the amendment application dated January 2011. Compliance with the emissions limits for planned MSS activities identified in the MAERT attached to this permit may be demonstrated as follows. **(10/12)**

- A. For each pollutant emitted during ILE planned maintenance activities, the permit holder shall annually confirm the continued validity of the estimated potential to emit represented in the permit application for all ILE planned maintenance activities. The total emissions from all ILE planned maintenance activities (See Attachment A) shall be considered to be no more than the estimated potential to emit for those activities that are represented in the permit application.
 - B. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions occur through a stack, the permit holder shall determine the total emissions of the pollutant through the stack that result from such non-ILE planned MSS activities in accordance with Special Condition No. 21.
 - C. For each pollutant emitted during non-ILE planned MSS activities (See Attachment B) whose emissions do not occur through a stack, the permit holder shall do the following for each calendar month.
 - (1) Determine the total emissions of the pollutant from such non-ILE planned MSS activities in accordance with Special Condition No. 21.
 - (2) Once monthly emissions have been determined in accordance with Special Condition No. 20C(1) for 12 months after the MSS permit amendment has been issued, the permit holder shall compare the sum of the rolling 12-month emissions for the pollutant for all non-ILE planned MSS activities and the potential to emit for the pollutant from all ILE planned activities (as referenced in Special Condition No. 20A), to the annual emissions limit for the pollutant in the MAERT.
21. The permit holder shall determine the emissions during planned MSS activities for use in Special Condition No. 20 by calculating the pollutant's emissions during all occurrences of each type of planned MSS activity for each calendar month using the frequency of the planned MSS activity identified in work orders or equivalent records and the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application. In lieu of using the emissions of the pollutant during the planned MSS activity as represented in the planned MSS permit application to calculate such emissions, the permit holder may determine the emissions of the pollutant during the planned MSS activity using an appropriate method, including but not limited to, any of the methods described in paragraphs A through D below, provided that the permit holder maintains appropriate records supporting such determination: **(10/12)**
- A. Use of emission factor(s), facility-specific parameter(s), and/or engineering knowledge of the facility's operations.
 - B. Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on a similar facility, and correlation of that data with the facility's relevant operating parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.
 - C. Use of emissions testing data collected during a planned MSS activity occurring at or on the facility, and correlation of that data with the facility's relevant operating

parameters, including, but not limited to, electric load, temperature, fuel input, and fuel sulfur content.

- D. Use of parametric monitoring system (PEMS) data applicable to the facility.
22. With the exception of the emission limits in the MAERT attached to this permit, the permit conditions relating to planned MSS activities do not become effective until 180 days after issuance of the permit amendment that added such conditions. **(10/12)**

Permits by Rule and Standard Permits

23. The following maintenance activities at the site are currently authorized by permits by rule (PBR) under 30 TAC Chapter 106 or PBR predecessor standard exemptions (SE) to 30 TAC Chapter 116. This list is not intended to be all inclusive and can be altered at the site without modification to this permit. The standard permit identified below was issued under 30 TAC Chapter 116. **(10/12)**

Description	SE, PBR No.
Comfort Heating System Maintenance and Repair	SE 003, 106.102
Bench Scale Laboratory Equipment	SE 034, 106.122
Brazing, Soldering, and Welding	SE 039, 106.227
Enclosed and Outdoor Dry Abrasive Blasting	106.263
Miscellaneous Surface Coating	106.263
Hand-Held Equipment for Buffing, Polishing, Cutting, Drilling, Sawing, Grinding, Turning, or Machining Wood, Metal or Plastic	SE 040, 106.265
Refrigeration System Maintenance and Repair	SE 103, 106.373
Solvent Cleaning-Parts Degreaser	SE 107, 106.454
Portable Engines	SE 005, 106.511
Water and Wastewater treatment	SE 061, 106.532
Standard Permit for Pollution Controls	Registration No. 51712

Date: December 20, 2013

Attachment A

Permit Numbers 8579 and PSDTX371M5

Inherently Low Emitting (ILE) Planned Maintenance Activities

Planned Maintenance Activity	NH ₃ /Urea	VOC	NO _x	CO	PM	SO ₂
Miscellaneous particulate filter maintenance ¹					X	
Water-based washing		X				
Maintenance of storage vessels storing material with vapor pressure <0.5 psia		X				
Management of sludge from pits, ponds, sumps, and water conveyances ²		X				
Gaseous fuel venting (pipe length < 100 feet)		X				
Material handling system maintenance ³					X	
Organic chemical usage, not covered by “manual surface coating or solvent cleaning operations” or by “use and disposal of aerosol products”		X				
Small equipment and fugitive component repair/replacement in VOC and inorganic service ⁴	X	X				

Date: December 20, 2013

¹ Includes, but is not limited to, baghouse filters, ash silo/transfer filters, coal handling filters, process-related building air filters, and combustion turbine air intake filters.

² Includes, but is not limited to, management by vacuum truck/dewatering of materials in open pits and ponds, and sumps, tanks and other closed or open vessels. Materials managed include water and sludge mixtures containing miscellaneous VOCs such as diesel, lube oil, and other waste oils.

³ Material handling system equipment includes, but is not limited to, silos, transport systems, coal bunkers, coal crushing equipment, coal handling, nuvafeders, hoppers, FGD sludge handling system. Materials handled include coal, ash, limestone, gypsum, mercury, and sorbents.

⁴ Includes, but is not limited to, (i) repair/replacement of pumps, compressors, valves, pipes, flanges, transport lines, filters and screens in natural gas, fuel oil, diesel oil, ammonia, lube oil, and gasoline service, (ii) vehicle and mobile equipment maintenance that may involve small VOC emissions, such as oil changes, transmission service, and hydraulic system service, and (iii) off-line NO_x control device maintenance (including maintenance of the anhydrous ammonia systems and aqueous ammonia systems associated with SCR systems and SNCR systems).

Attachment B

Permit Numbers 8579 and PSDTX371M5

Non-Inherently Low Emitting Planned MSS Activities

Planned Maintenance Activity	EPN	NH ₃ / Urea	VOC	NO _x	CO	PM	SO ₂
Vacuum truck solids loading ¹	MSSFUG ²					x	
Vacuum truck solids unloading	MSSFUG					x	
Gaseous fuel venting (pipe length > 100 feet)	MSSFUG		x				
Portable small engines ³	MSSFUG		x	x	x	x	x
Maintenance of storage vessels storing gasoline or other material with vapor pressure >0.5 psia that requires clearing of the vessels to allow for entry of personnel	MSSFUG	x	x				

Date: December 20, 2013

¹ Includes site-wide solids vacuuming operations (e.g., SCR, baghouse, ESP, ducts, furnace, loop seals, stripper coolers, and airlocks).

² Emission point MSSFUG represents permitted site-wide MSS fugitive emissions at the Limestone Electric Generating Station. MSSFUG emissions are quantified in the maximum allowable emissions rate table in Permit Nos. 8579 and PSDTX371M5. **(12/13)**

³ Includes engines used onsite for longer than twelve consecutive months.

Emission Sources - Maximum Allowable Emission Rates

Permit Number 8579 and PSDTX371M5

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lbs/hour	TPY (5)
FH-1A	Fuel Handling Lignite Mine Transfer Silo	PM	0.5	2.19
		PM ₁₀	0.24	1.05
FH-1B	Fuel Handling Overland Conveyor	PM	4.3	7.92
		PM ₁₀	2.04	3.75
FH-1C	Fuel Handling Transfer Tower No. 4	PM	0.25	1.1
		PM ₁₀	0.12	0.53
FH-2	Fuel Handling Transfer Tower No. 1Y	PM	1.51	6.61
		PM ₁₀	0.72	3.15
FH-3A	Fuel Handling Active Storage Pile A Reclaim	PM	1.01	4.42
		PM ₁₀	0.48	2.1
FH-3B	Fuel Handling Active Storage Pile B Reclaim	PM	1.01	4.42
		PM ₁₀	0.48	2.1
FH-4	Fuel Handling Crusher House	PM	0.76	3.33
		PM ₁₀	0.36	1.58
FH-5	Fuel Handling Transfer Tower No. 2	PM	0.76	3.33
		PM ₁₀	0.36	1.58
FH-6	Fuel Handling Transfer Tower No. 3	PM	1.01	4.42
		PM ₁₀	0.48	2.1
FH-8A	Fuel Handling Silo Gallery A Unit No. 1	PM	0.76	3.33
		PM ₁₀	0.36	1.58

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lbs/hour	TPY (5)
FH-8B	Fuel Handling Silo Gallery B Unit No. 1	PM	0.76	3.33
		PM ₁₀	0.36	1.58
FH-8C	Fuel Handling Silo Gallery C Unit No. 2	PM	0.76	3.33
		PM ₁₀	0.36	1.58
FH-8D	Fuel Handling Silo Gallery D Unit No. 2	PM	0.76	3.33
		PM ₁₀	0.36	1.58
FH-9A	Fuel Handling Active Storage Pile A (6)	PM	--	1.58
		PM ₁₀	--	0.78
FH-9B	Fuel Handling Active Storage Pile B (6)	PM	--	1.58
		PM ₁₀	--	0.78
FH-10	Fuel Handling Inactive Storage Pile (6)	PM	--	18.34
		PM ₁₀	--	8.99
FH-11	Fuel Handling Emergency Storage Pile (6)	PM	--	0.42
		PM ₁₀	--	0.21
FH-12	Fuel Handling Transfer Tower TT-31	PM	0.91	1.13
		PM ₁₀	0.43	0.54
FH-13	Fuel Handling Railcar Unloader Conveyor C31 (6)	PM	0.42	0.52
		PM ₁₀	0.2	0.25
FH-14	Fuel Handling Railcar Unloader (6)	PM	1.15	1.44
		PM ₁₀	0.54	0.68
LAS-1A	Fuel Handling Lime Addition Silo A Baghouse Stack	PM ₁₀	0.08	0.28
LAS-1B	Fuel Handling Lime Addition Silo B Baghouse Stack	PM ₁₀	0.08	0.28

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lbs/hour	TPY (5)
LM-1A	Limestone Handling Railcar Unloading Facility (6)	PM	0.6	0.3
		PM ₁₀	0.3	0.15
LM-1	Limestone Handling Unloader and Hopper Vault Baghouse Stack	PM ₁₀	1.29	5.65
LM-2	Limestone Handling Shuttle Conveyor Baghouse Stack	PM ₁₀	0.77	3.37
LM-3	Limestone Handling Reclaim Baghouse Stack	PM ₁₀	0.51	2.23
LM-4	Limestone Handling Transfer Tower Baghouse Stack	PM ₁₀	1.71	7.49
LM-5	Limestone Handling Feed Silos Baghouse Stack	PM ₁₀	0.61	2.67
LM-6	Limestone Handling Storage Pile (6)	PM	--	0.42
		PM ₁₀	--	0.21
WH-1A	Waste Handling Fly Ash Silo No. 1 Baghouse Stack	PM ₁₀	1.59	6.96
WH-1B	Waste Handling Fly Ash Silo No. 2 Baghouse Stack	PM ₁₀	1.59	6.96
WH-1C	Waste Handling Fly Ash Truck Loading Operation (6)	PM	0.95	0.19
		PM ₁₀	0.26	0.05
WH-1D	Waste Handling Fly Ash Bag Loading Operation (6)	PM	0.03	0.13
		PM ₁₀	0.02	0.08
WH-1E	Waste Handling Fly Ash Truck Loading Operation (6)	PM	0.95	0.19
		PM ₁₀	0.26	0.05
WH-1F	Waste Handling Fly Ash Truck to Railcar Loading Operation (6)	PM	0.95	0.19
		PM ₁₀	0.26	0.05
WH-2A	Waste Handling Fly Ash Storage Silo A Baghouse Stack	PM ₁₀	1.15	5.04

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lbs/hour	TPY (5)
WH-2B	Waste Handling Fly Ash Storage Silo B Baghouse Stack	PM ₁₀	1.15	5.04
WH-2C	Waste Handling Fly Ash Storage Silo C Baghouse Stack	PM ₁₀	1.15	5.04
WH-4A	Waste Handling Pugmill A Wet Scrubber Stack	PM ₁₀	0.17	0.74
WH-4B	Waste Handling Pugmill B Wet Scrubber Stack	PM ₁₀	0.17	0.74
WH-4C	Waste Handling Pugmill C Wet Scrubber Stack	PM ₁₀	0.17	0.74
WH-5A	Waste Handling Stabilized Sludge Conveyor A (6)	PM	0.04	0.04
		PM ₁₀	0.02	0.02
WH-5B	Waste Handling Stabilized Sludge Conveyor B (6)	PM	0.04	0.04
		PM ₁₀	0.02	0.02
WH-5C	Waste Handling Stabilized Sludge Conveyor C (6)	PM	0.04	0.04
		PM ₁₀	0.02	0.02
WH-6A	Waste Handling Stabilized Sludge Conveyor Stackout A (6)	PM	--	0.34
		PM ₁₀	--	0.17
WH-6B	Waste Handling Stabilized Sludge Conveyor Stackout B (6)	PM	--	0.34
		PM ₁₀	--	0.17
WH-6C	Waste Handling Stabilized Sludge Conveyor Stackout C (6)	PM	--	0.34
		PM ₁₀	--	0.17
LF-1	Waste Handling Landfill (6)	PM	--	26.17
		PM ₁₀	--	13.1
MCT-1	Unit 1 Main Cooling Tower	PM ₁₀	5.78	21.11
MCT-2	Unit 2 Main Cooling Tower	PM ₁₀	5.78	21.11
ACT-1	Auxiliary Cooling Tower No. 1	PM ₁₀	0.29	0.95
ACT-2	Auxiliary Cooling Tower No. 2	PM ₁₀	0.29	0.95

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lbs/hour	TPY (5)
AC-1	Indoor Abrasive Cleaning and Painting Facility Baghouse Stack	PM ₁₀	2.57	2.67
		VOC	5.42	0.79
AC-2	Outdoor Abrasive Cleaning and Painting Facility (6)	PM	1.43	0.57
		PM ₁₀	0.17	0.07
AC-2A	Outdoor Spray Painting Facility (6)	PM	7.04	1.23
		PM ₁₀	3.52	0.62
		VOC	5.42	0.79
BATL-1	Bottom Ash Truck Loading (6)	PM	0.94	2.54
		PM ₁₀	0.47	1.27
RCUL01	Temporary Railcar Unloader Baghouse Stack	PM ₁₀	0.55	0.51
SiloU1	PAC Silo U1	PM	0.105	0.46
		PM ₁₀	0.105	0.46
		PM _{2.5}	0.105	0.46
SiloU2	PAC Silo U2	PM	0.105	0.46
		PM ₁₀	0.105	0.46
		PM _{2.5}	0.105	0.46
MSS FUG	Miscellaneous Site-Wide Maintenance Activities	VOC	156.36	4.89
		PM	3.33	4.95
		PM ₁₀	3.10	2.73
		PM _{2.5}	2.92	1.04
		NO _x	0.38	0.16
		CO	0.36	0.05
		SO ₂	0.02	0.01
		NH ₃	7.72	0.01

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
NH₃ - ammonia
- (4) The pound per hour and ton per year emission limits specified in the MAERT for this facility includes emissions from the facility during both normal operations and planned MSS activities, unless otherwise noted.
- (5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: December 20, 2013